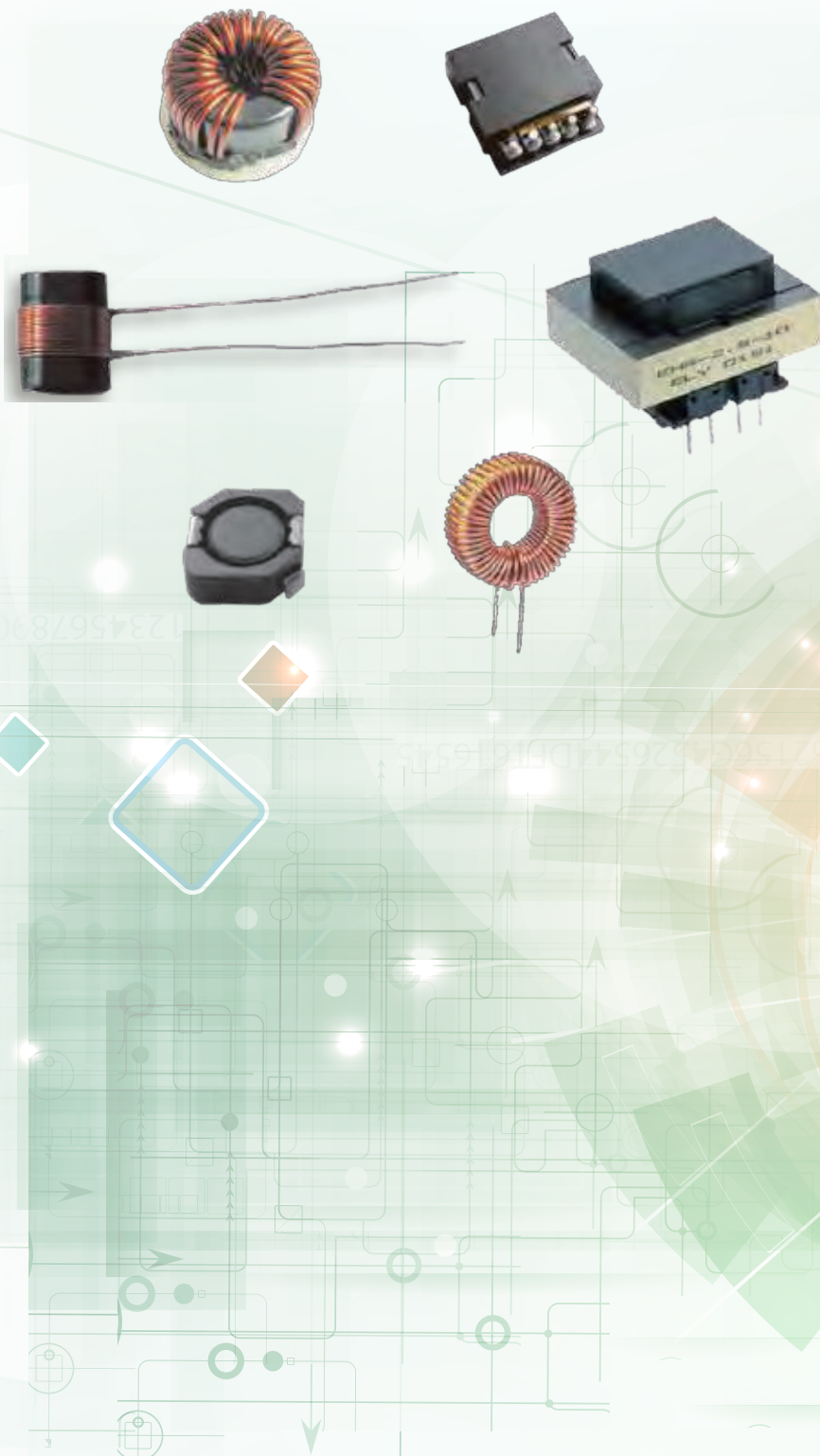


EPS



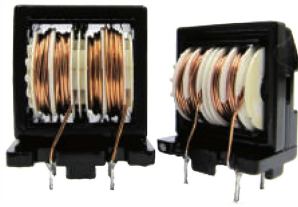
2017-18

Product Catalogue



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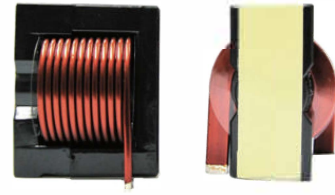
Major Product Categories



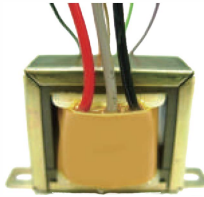
Common Mode Chokes



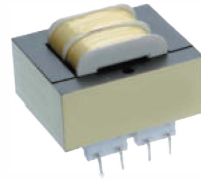
Current Sense Transformers



Flat Helix Winding Coils



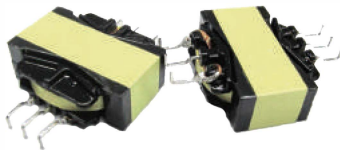
Line Matching Audio Transformers



Line Power Transformers



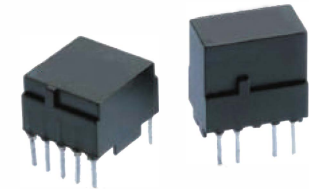
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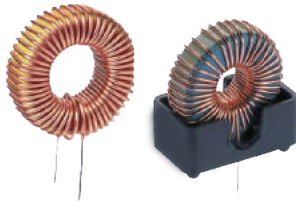
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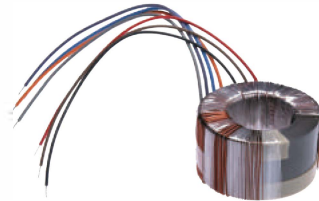
SMD Power Inductors



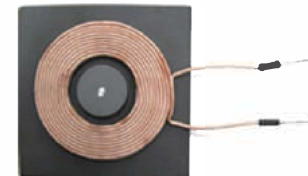
Telecommunication Transformers



Toroidal Inductors



Toroidal Line Power Transformers



TX and RX Modules for Wireless Power Chargers

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Line Power Transformers

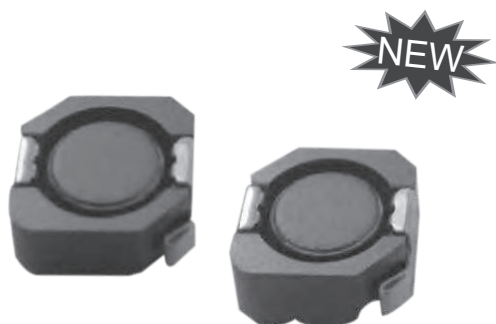
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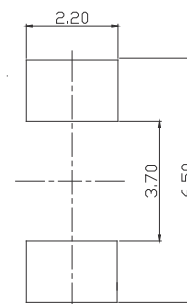
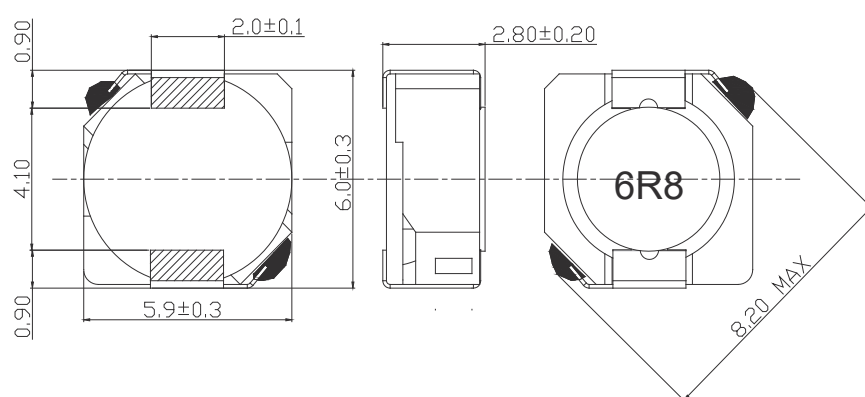
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MTI-SDR0528A_{SERIES}

SMD Power Inductor



- Ferrite core construction
- L*W*H :6.3 * 6.2 *3.0 Max.
- High temperature inductor for Automotive application
- Operation temperature range : -40 degree to +125 degree (Including coil's self temp. rise)
- RoHs compliance
- Halogen free available
- Qualified to AEC-Q200



LAND PATTERN

UNIT:mm

Electrical Specifications at 25°C

No.	PART NUMBER	MARK	OCL(uH)	DCR (mohm)		Saturation Current (A)		Temperature Rise Current (A)
				Max.	Typ.	At 25°C	At 125°C	
1	MTI-SDR0528A-1R2-T125	1R2	1.2±25%	17.0	12.7	7.10	5.60	4.50
2	MTI-SDR0528A-1R6-T125	1R6	1.6 ±25%	20.0	14.1	6.50	5.10	4.20
3	MTI-SDR0528A-2R2-T125	2R2	2.2 ±25%	27.0	22.7	5.30	4.00	3.50
4	MTI-SDR0528A-3R3-T125	3R3	3.3 ±25%	35.5	27.4	4.30	3.40	2.80
5	MTI-SDR0528A-4R7-T125	4R7	4.7 ±25%	52.0	41.7	3.70	2.89	2.60
6	MTI-SDR0528A-6R8-T125	6R8	6.8 ±25%	63.0	43.3	3.08	2.44	2.50
7	MTI-SDR0528A-100-T125	100	10 ±20%	99.0	72.6	2.46	1.93	2.00
8	MTI-SDR0528A-150-T125	150	15 ±20%	143	109	2.08	1.63	1.45
9	MTI-SDR0528A-220-T125	220	22 ±20%	203	154	1.70	1.33	1.20
10	MTI-SDR0528A-330-T125	330	33 ±20%	300	221	1.41	1.12	0.95
11	MTI-SDR0528A-470-T125	470	47 ±20%	470	342	1.16	0.91	0.77
12	MTI-SDR0528A-680-T125	680	68 ±20%	545	420	0.95	0.74	0.68
13	MTI-SDR0528A-101-T125	101	100 ±20%	825	626	0.80	0.62	0.58

1. OCL Measuring condition is 100KHz · 0.1Vrms.

2. Saturation current: The value of D.C current when the inductance decreases to 65% of it's normal value.

3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$)



MTI-SDR0528A SERIES

L(25°C)

_____ L(125°C)

_____ ΔT

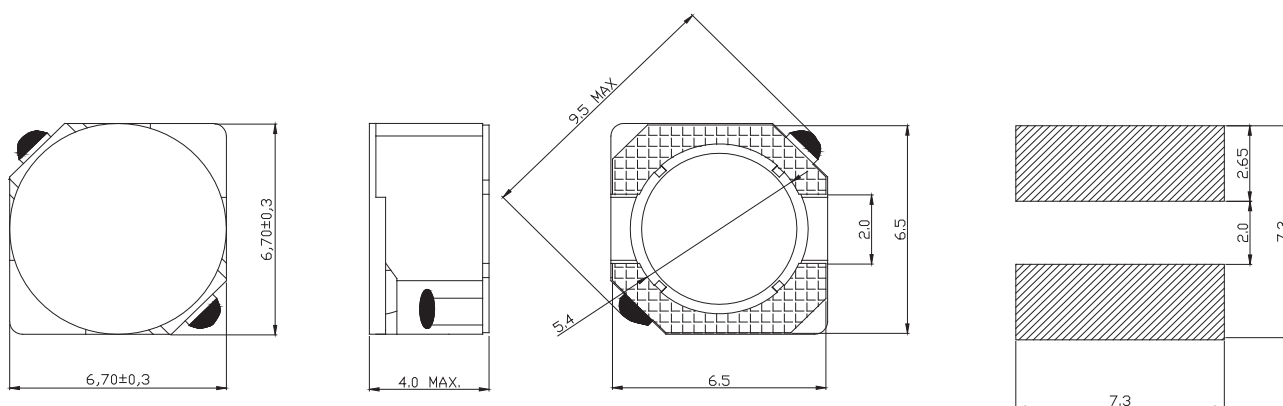
 $L(\mu H)$  $L(\mu H)$  $L(\mu H)$  $L(\mu H)$  $L(\mu H)$  $L(\mu H)$  $L(\mu H)$  $L(\mu H)$  $L(\mu H)$  $L(\mu H)$  $L(\mu H)$  $L(\mu H)$  $L(\mu H)$ 

MTI-SDR0638A_{SERIES}

SMD Power Inductor



- Ferrite core construction
- L*W*H :7.0 * 7.0*4.0 Max.
- High temperature inductor for Automotive application
- Operation temperature range : -40 degree to +125 degree
(Including coil's self temp. rise)
- RoHs compliance
- Halogen free available
- Qualified to AEC-Q200



LAND PARTTERN

UNIT:mm

Electrical Specifications at 25°C

No.	PART NUMBER	MARK	OCL(μ H)	DCR (mohm)		Saturation Current (A)		Temperature Rise Current (A)
				Max.	Typ.	At 25°C	At 125°C	
1	MTI-SDR0638A-3R0-T125	3R0	$3.0 \pm 30\%$	22.0	13.8	3.90	3.00	4.30
2	MTI-SDR0638A-3R9-T125	3R9	$3.9 \pm 30\%$	24.5	14.5	3.30	2.50	4.20
3	MTI-SDR0638A-4R7-T125	4R7	$4.7 \pm 30\%$	27.5	16.4	3.10	2.40	4.10
4	MTI-SDR0638A-5R6-T125	5R6	$5.6 \pm 30\%$	30.5	20.0	2.85	2.10	3.40
5	MTI-SDR0638A-6R8-T125	6R8	$6.8 \pm 30\%$	33.0	20.4	2.65	2.00	3.20
6	MTI-SDR0638A-100-T125	100	$10 \pm 25\%$	43.5	26.8	2.20	1.70	3.00
7	MTI-SDR0638A-150-T125	150	$15 \pm 25\%$	59.8	44.1	1.80	1.50	2.20
8	MTI-SDR0638A-220-T125	220	$22 \pm 25\%$	103	68	1.50	1.00	1.65
9	MTI-SDR0638A-330-T125	330	$33 \pm 25\%$	145	107	1.25	0.95	1.25
10	MTI-SDR0638A-470-T125	470	$47 \pm 25\%$	181	134	1.00	0.80	1.15
11	MTI-SDR0638A-680-T125	680	$68 \pm 25\%$	250	174	0.85	0.65	0.95
12	MTI-SDR0638A-101-T125	101	$100 \pm 25\%$	372	274	0.68	0.55	0.75

1. OCL Measuring condition is 100KHz · 0.1Vrms.

2. Saturation current: The value of D.C current when the inductance decreases to 65% of it's normal value.

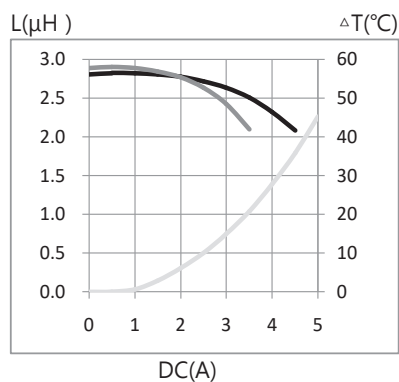
3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T = 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$)



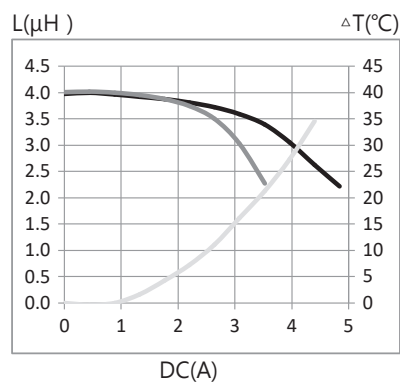
Saturated Current and Temperature Rise Graph.

L(25°C)
 L(125°C)
 ΔT

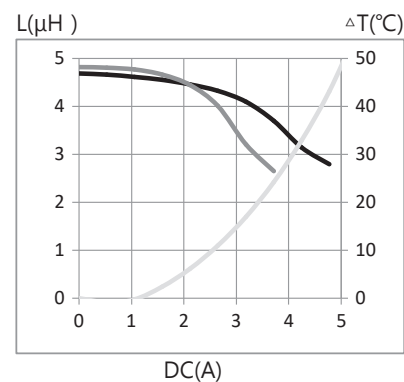
1. MTI-SDR0638A-3R0-T125



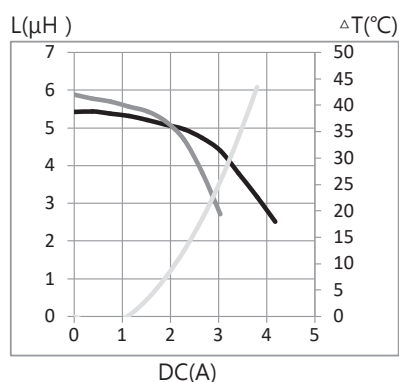
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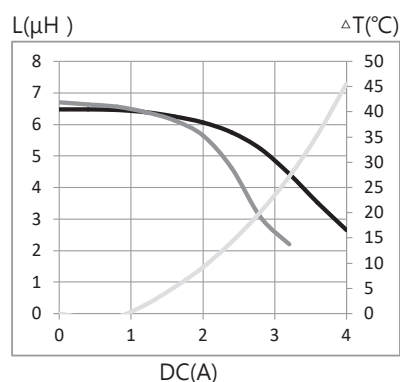
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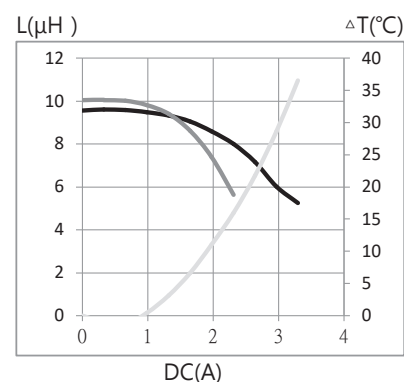
4. MTI-SDR0638A-5R6-T125



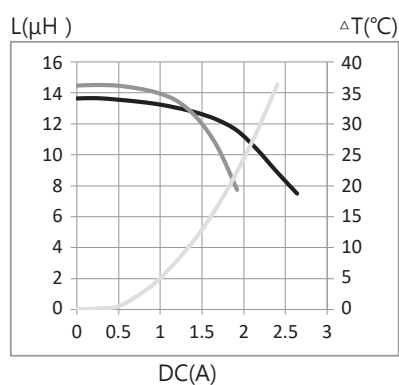
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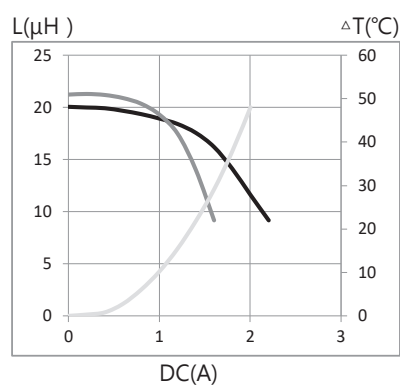
6. MTI-SDR0638A-100-T125



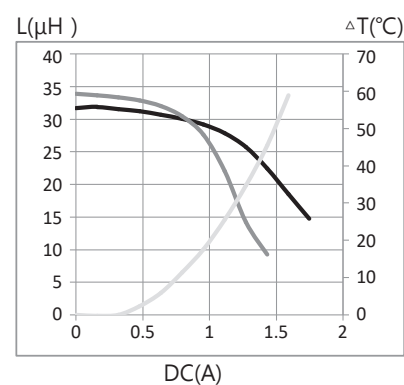
7. MTI-SDR0638A-150-T125



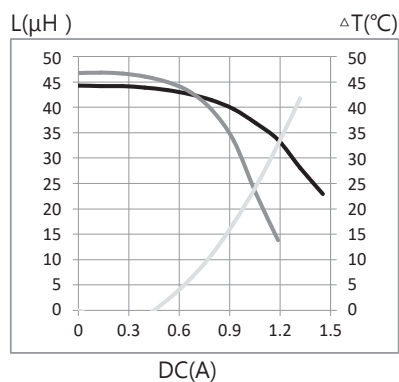
8. MTI-SDR0638A-220-T125



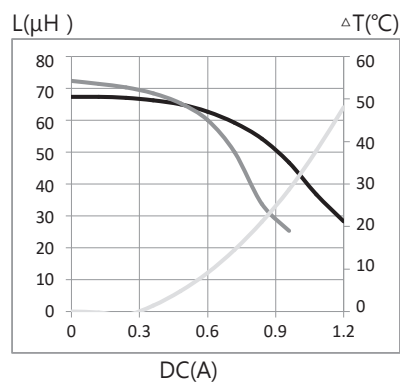
9. MTI-SDR0638A-330-T125



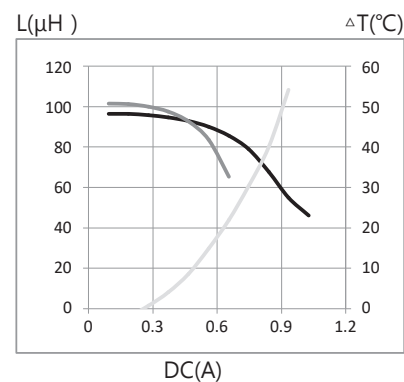
10. MTI-SDR0638A-470-T125



11. MTI-SDR0638A-680-T125



12. MTI-SDR0638A-101-T125



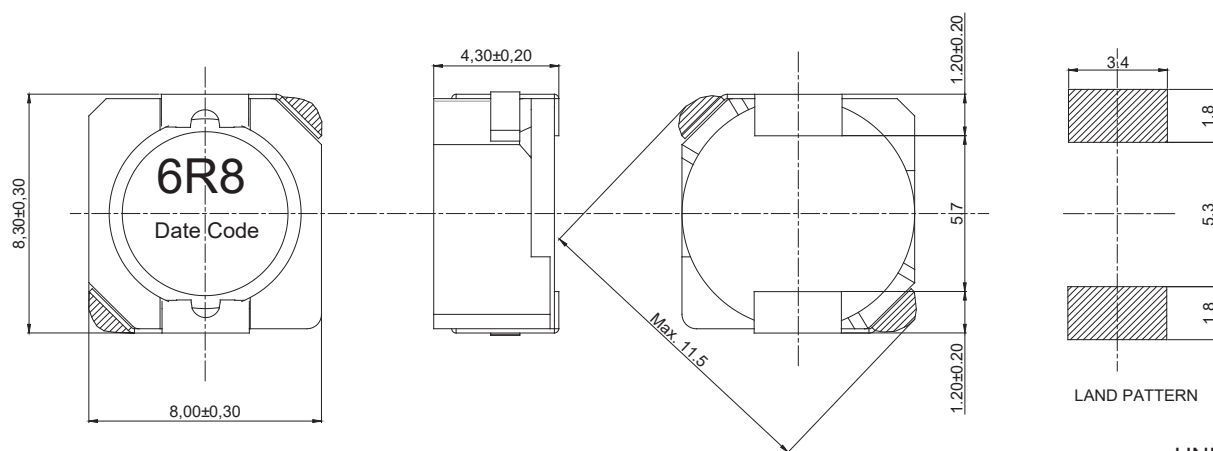
MTI-SDR0843A_{SERIES}

SMD Power Inductor

NEW



- Ferrite core construction
- L*W*H :8.6 * 8.3 *4.5 Max.
- High temperature inductor for Automotive application
- Operation temperature range : -40 degree to +125 degree (Including coil's self temp. rise)
- RoHs compliance
- Halogen free available
- Qualified to AEC-Q200



UNIT:mm

Electrical Specifications at 25°C

No.	Part Number	MARK	OCL(μH)	DCR (mohm)		Saturation Current (A)		Temperature Rise Current (A)
				Max.	Typ.	At 25°C	At 125°C	
1	MTI-SDR0843A-1R2-T125	1R2	1.2 ± 25%	9.70	6.32	8.00	6.00	7.50
2	MTI-SDR0843A-1R8-T125	1R8	1.8 ± 25%	12.1	7.3	7.30	5.80	6.40
3	MTI-SDR0843A-2R6-T125	2R6	2.6 ± 25%	14.0	9.9	7.10	5.60	5.80
4	MTI-SDR0843A-3R6-T125	3R6	3.6 ± 25%	16.3	11.5	6.10	4.70	5.20
5	MTI-SDR0843A-4R7-T125	4R7	4.7 ± 25%	23.5	16.2	5.40	4.20	4.20
6	MTI-SDR0843A-5R6-T125	5R6	5.6 ± 25%	26.9	18.6	4.50	3.50	4.00
7	MTI-SDR0843A-6R8-T125	6R8	6.8 ± 25%	29.8	20.2	4.20	3.30	3.50
8	MTI-SDR0843A-8R2-T125	8R2	8.2 ± 25%	40.8	24.4	4.00	3.20	3.25
9	MTI-SDR0843A-100-T125	100	10 ± 20%	45.0	27.9	3.50	2.75	3.00
10	MTI-SDR0843A-150-T125	150	15 ± 20%	61.8	42.3	2.90	2.30	2.45
11	MTI-SDR0843A-220-T125	220	22 ± 20%	77.6	60.4	2.35	1.85	1.85
12	MTI-SDR0843A-330-T125	330	33 ± 20%	123	82	1.95	1.55	1.55
13	MTI-SDR0843A-470-T125	470	47 ± 20%	186	115	1.60	1.30	1.30
14	MTI-SDR0843A-680-T125	680	68 ± 20%	288	174	1.30	1.05	1.03
15	MTI-SDR0843A-101-T125	101	100 ± 20%	353	272	1.10	0.87	0.95
16	MTI-SDR0843A-151-T125	151	150 ± 20%	575	361	0.91	0.72	0.76
17	MTI-SDR0843A-221-T125	221	220 ± 20%	861	500	0.75	0.60	0.65
18	MTI-SDR0843A-331-T125	331	330 ± 20%	1330	801	0.62	0.50	0.60

1. OCL Measuring condition is 100KHz · 0.1Vrms.

2. Saturation current: The value of D.C current when the inductance decreases to 65% of it's normal value.

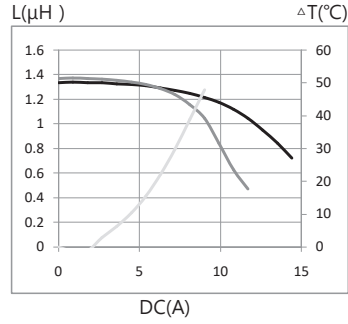
3. Temperature rise current: The value of D.C. current when the temperature rise is ΔT=40°C (Ta=25°C)



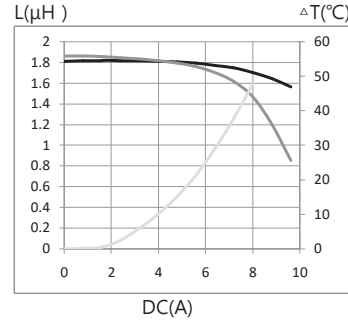
Saturated Current and Temperature Rise Graph.

———— L(25°C) ————— L(125°C) ———— ΔT

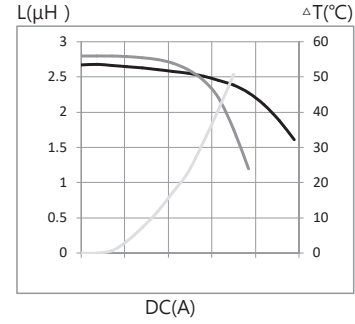
1. MTI-SDR0843A-1R2-T125



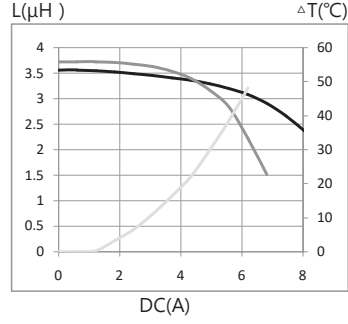
2. MTI-SDR0843A-1R8-T125



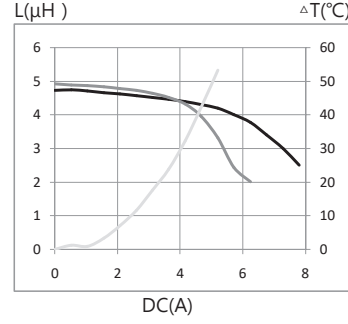
3. MTI-SDR0843A-2R6-T125



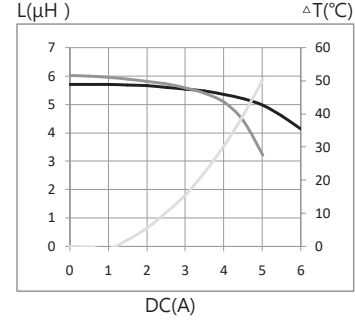
4. MTI-SDR0843A-3R6-T125



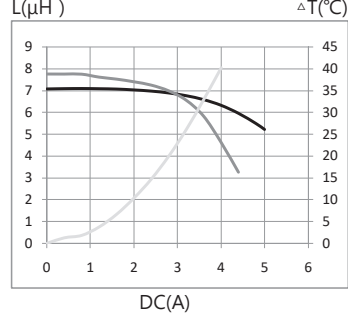
5. MTI-SDR0843A-4R7-T125



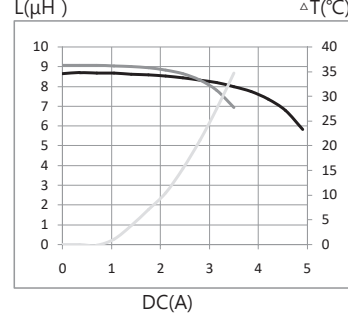
6. MTI-SDR0843A-5R6-T125



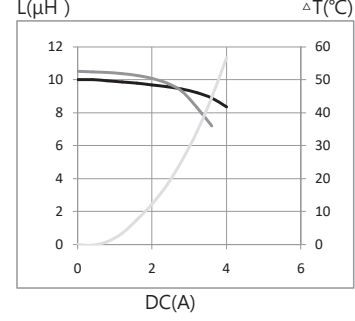
7. MTI-SDR0843A-6R8-T125



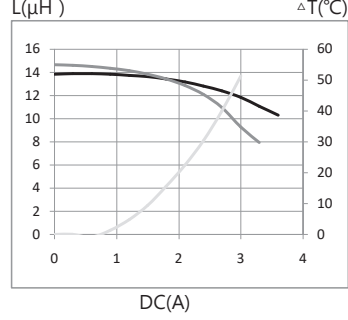
8. MTI-SDR0843A-8R2-T125



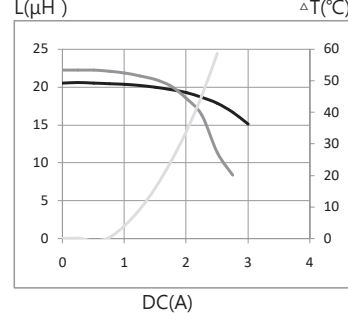
9. MTI-SDR0843A-100-T125



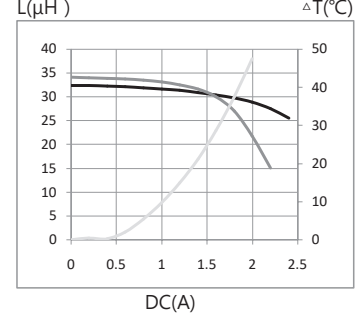
10. MTI-SDR0843A-150-T125



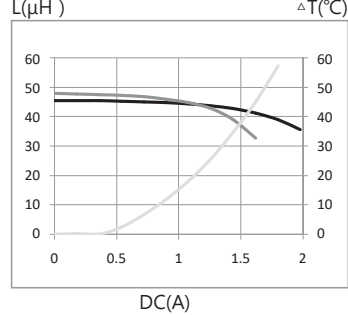
11. MTI-SDR0843A-220-T125



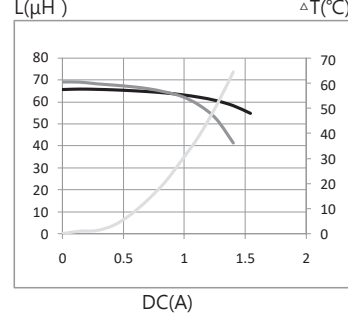
12. MTI-SDR0843A-330-T125



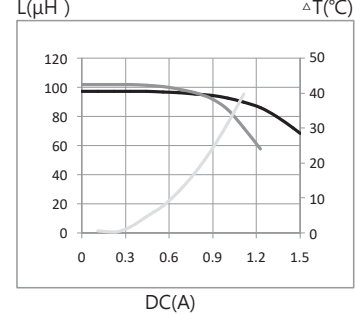
13. MTI-SDR0843A-470-T125



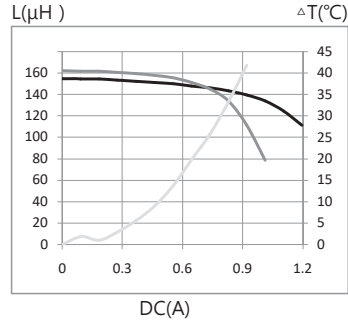
14. MTI-SDR0843A-680-T125



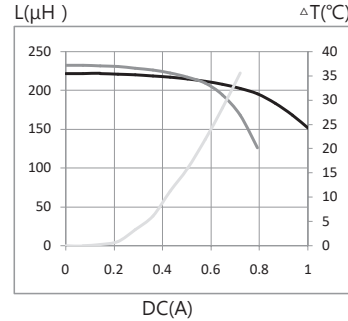
15. MTI-SDR0843A-101-T125



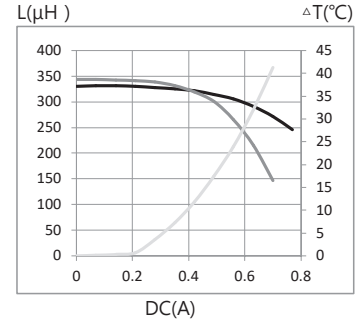
16. MTI-SDR0843A-151-T125



17. MTI-SDR0843A-221-T125



18. MTI-SDR0843A-331-T125



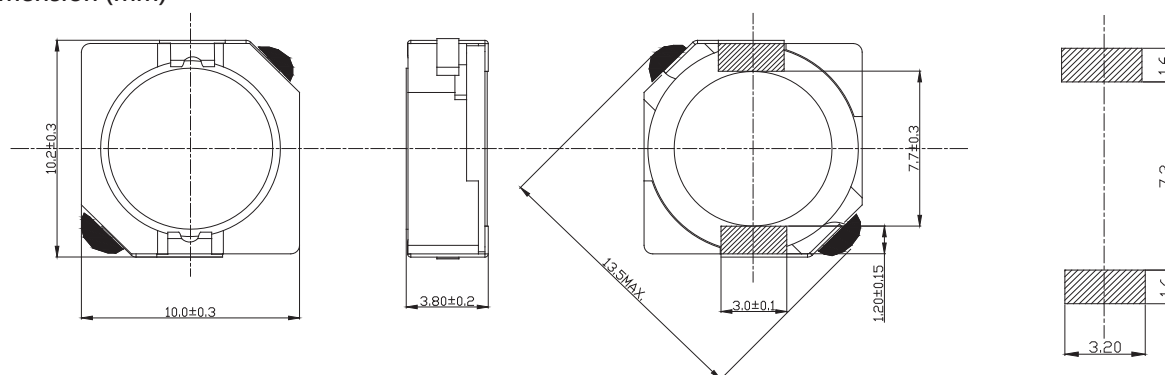
MTI-SDR1004A_{SERIES}

SMD Power Inductor



- Ferrite core construction
- L*W*H :10.3 *10.5 *4.0 Max.
- High temperature inductor for Automotive application
- Operation temperature range : -40 degree to +125 degree (Including coil's self temp. rise)
- RoHs compliance
- Halogen free available
- Qualified to AEC-Q200

Dimension (mm)



LAND PATTERN

UNIT:mm

Electrical Specifications at 25°C

No.	Part Number	MARK	OCL(uH)	DCR (mohm)		Saturation Current (A)		Temperature Rise Current (A)
				Max.	Typ.	At 25°C	At 125°C	
1	MTI-SDR1004A-1R5-T125	1R5	1.5±25%	9.70	5.78	9.20	7.36	7.80
2	MTI-SDR1004A-2R2-T125	2R2	2.2±25%	11.0	7.45	8.00	6.16	7.00
3	MTI-SDR1004A-3R3-T125	3R3	3.3±25%	14.0	11.5	6.07	5.00	5.50
4	MTI-SDR1004A-4R7-T125	4R7	4.7±25%	19.1	14.5	5.57	4.60	5.00
5	MTI-SDR1004A-6R8-T125	6R8	6.8±25%	25.6	18.7	4.66	3.94	4.30
6	MTI-SDR1004A-100-T125	100	10±20%	36.8	23.9	4.10	3.46	3.50
7	MTI-SDR1004A-150-T125	150	15±20%	48.1	34.8	3.34	2.80	2.90
8	MTI-SDR1004A-220-T125	220	22±20%	70.0	54.3	2.56	2.18	2.30
9	MTI-SDR1004A-330-T125	330	33±20%	93.8	70.2	2.14	1.80	2.05
10	MTI-SDR1004A-470-T125	470	47±20%	136	104	1.80	1.51	1.68
11	MTI-SDR1004A-680-T125	680	68±20%	216	145	1.57	1.32	1.25
12	MTI-SDR1004A-101-T125	101	100±20%	300	229	1.30	1.10	1.05
13	MTI-SDR1004A-151-T125	151	150±20%	448	350	1.00	0.85	0.86
14	MTI-SDR1004A-221-T125	221	220±20%	694	507	0.85	0.72	0.68
15	MTI-SDR1004A-331-T125	331	330±20%	1060	789	0.70	0.58	0.56

1. OCL Measuring condition is 100KHz · 0.1Vrms.

2. Saturation current: The value of D.C current when the inductance decreases to 65% of it's normal value.

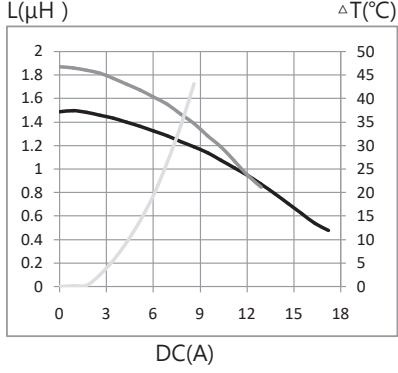
3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$)



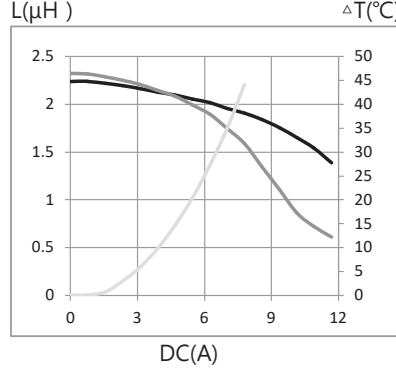
Saturated Current and Temperature Rise Graph.

— L(25°C) — L(125°C) — ΔT

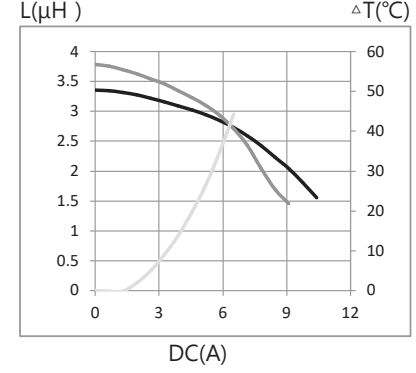
1. MTI-SDR1004A-1R5-T125



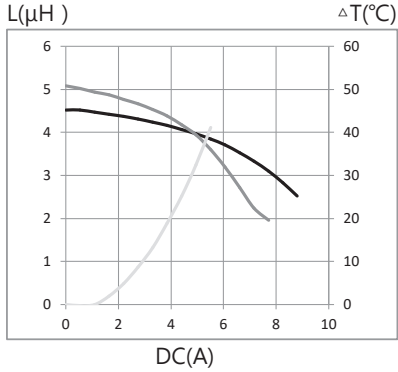
2. MTI-SDR1004A-2R2-T125



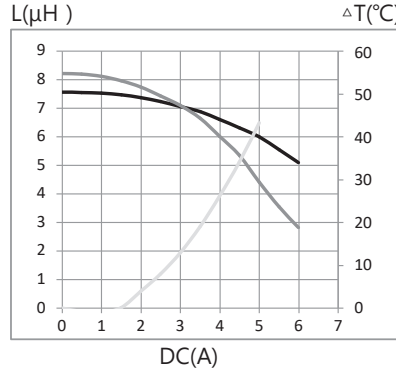
3. MTI-SDR1004A-3R3-T125



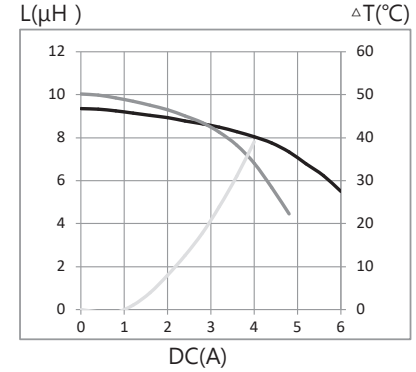
4. MTI-SDR1004A-4R7-T125



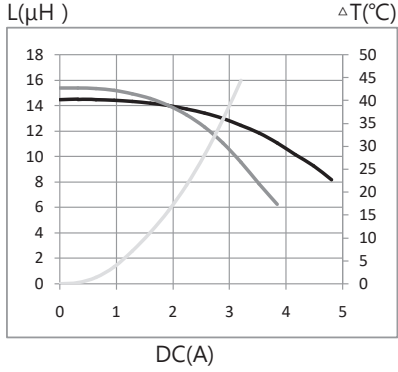
5. MTI-SDR1004A-6R8-T125



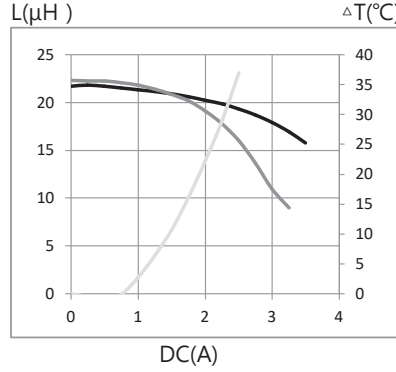
6. MTI-SDR1004A-100-T125



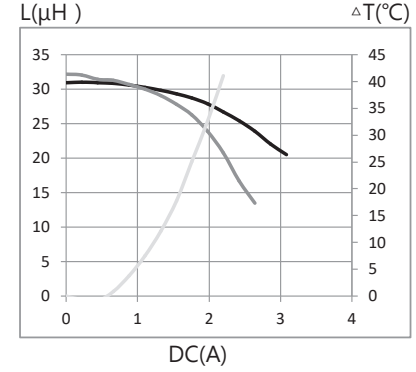
7. MTI-SDR1004A-150-T125



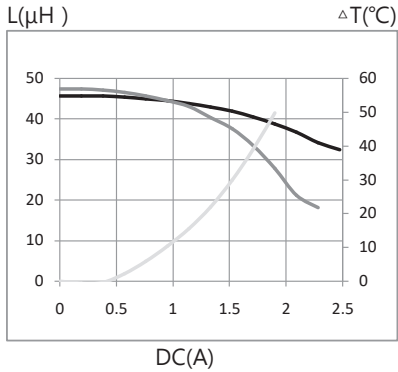
8. MTI-SDR1004A-220-T125



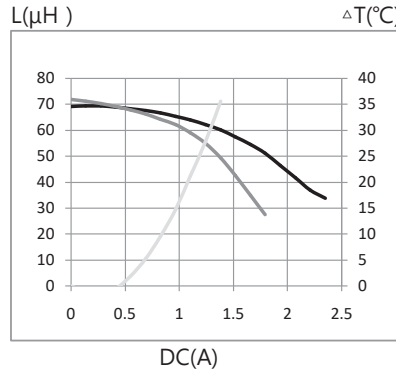
9. MTI-SDR1004A-330-T125



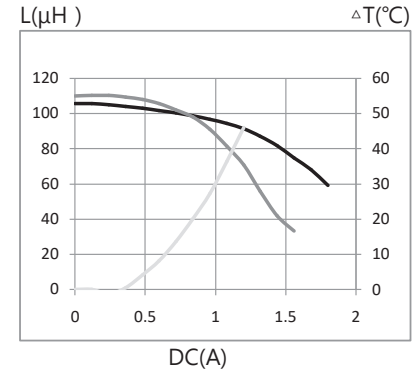
10. MTI-SDR1004A-470-T125



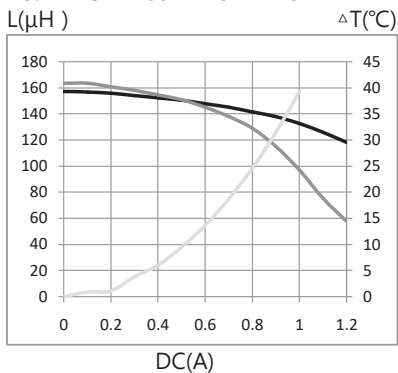
11. MTI-SDR1004A-680-T125



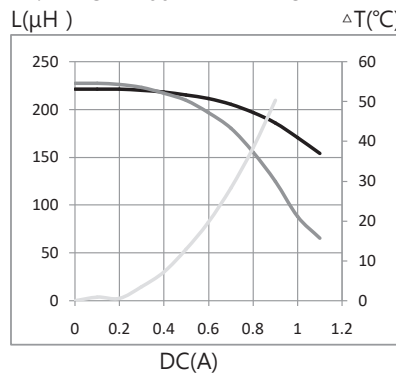
12. MTI-SDR1004A-101-T125



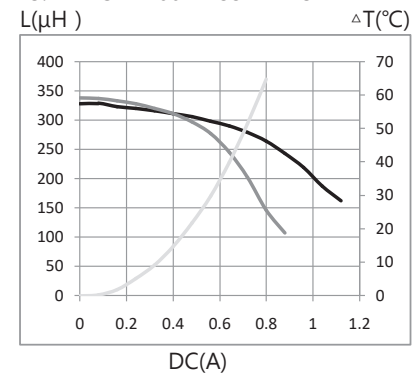
13. MTI-SDR1004A-151-T125



14. MTI-SDR1004A-221-T125



15. MTI-SDR1004A-331-T125



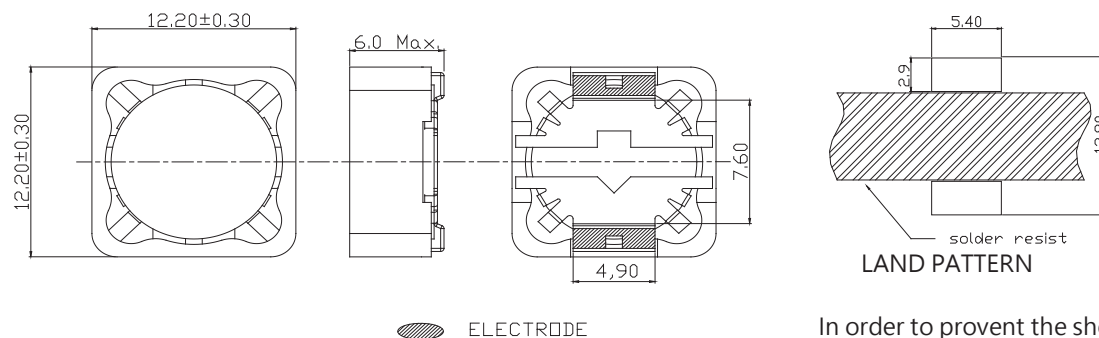
MTI-SDR1205A_{SERIES}

SMD Power Inductor



- Ferrite core construction
- L*W*H :12.5*12.5*6.0 Max.
- High temperature inductor for Automotive application
- Operation temperature range : -40 degree to +125 degree (Including coil's self temp. rise)
- RoHs compliance
- Halogen free available
- Qualified to AEC-Q200

Dimension (mm)



In order to prevent the short-circuiting a solder resist is recommended

UNIT:mm

Electrical Specifications at 25°C

No.	Part Number	MARK	OCL(uH)	DCR (mohm)		Saturation Current (A)		Temperature Rise Current (A)
				Max.	Typ.	At 25°C	At 125°C	
1	MTI-SDR1205A-1R5-T125	1R5	1.5±30%	8.5	6.60	14.20	11.60	9.00
2	MTI-SDR1205A-2R2-T125	2R2	2.2±30%	10.6	7.20	12.60	10.10	8.00
3	MTI-SDR1205A-2R7-T126	2R7	2.7±30%	12.8	8.10	10.20	8.20	7.40
4	MTI-SDR1205A-4R3-T125	4R3	4.3±30%	15.0	8.68	8.20	6.70	6.80
5	MTI-SDR1205A-5R6-T125	5R6	5.6±30%	17.5	10.4	7.20	5.90	6.50
6	MTI-SDR1205A-6R8-T125	6R8	6.8±30%	20.0	11.1	6.20	4.90	5.90
7	MTI-SDR1205A-100-T125	100	10.0±20%	25.0	16.1	5.20	4.10	5.30
8	MTI-SDR1205A-150-T125	150	15.0±20%	33.8	23.3	4.40	3.50	4.50
9	MTI-SDR1205A-220-T125	220	22.0±20%	39.5	35.8	3.50	2.81	3.70
10	MTI-SDR1205A-330-T125	330	33.0±20%	59.0	46.5	2.93	2.38	3.00
11	MTI-SDR1205A-470-T125	470	47.0±20%	93.0	73.3	2.44	2.00	2.42
12	MTI-SDR1205A-680-T125	680	68.0±20%	131	97.5	2.02	1.65	2.05
13	MTI-SDR1205A-101-T125	101	100±20%	166	146	1.70	1.37	1.82
14	MTI-SDR1205A-151-T125	151	150±20%	271	244	1.36	1.11	1.40
15	MTI-SDR1205A-221-T125	221	220±20%	394	340	1.12	0.90	1.15
16	MTI-SDR1205A-331-T125	331	330±20%	674	491	0.90	0.73	0.90
17	MTI-SDR1205A-471-T125	471	470±20%	858	670	0.75	0.61	0.81
18	MTI-SDR1205A-681-T125	681	680±20%	1220	1034	0.62	0.50	0.65
19	MTI-SDR1205A-102-T125	102	1000±20%	1900	1505	0.52	0.42	0.50

1. OCL Measuring condition is 100KHz · 0.1Vrms.

2. Saturation current: The value of D.C current when the inductance decreases to 65% of it's normal value.

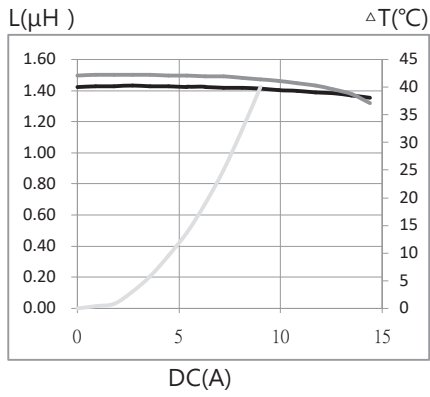
3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$)



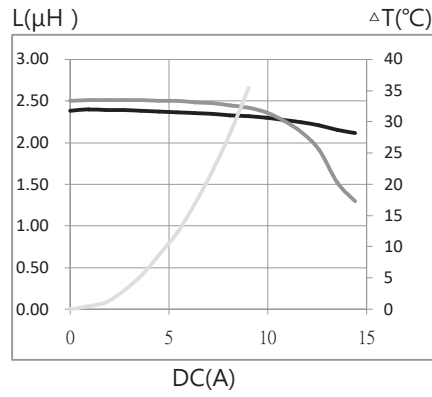
Saturated Current and Temperature Rise Graph.

—— L(25°C)
 —— L(125°C)
 —— ΔT

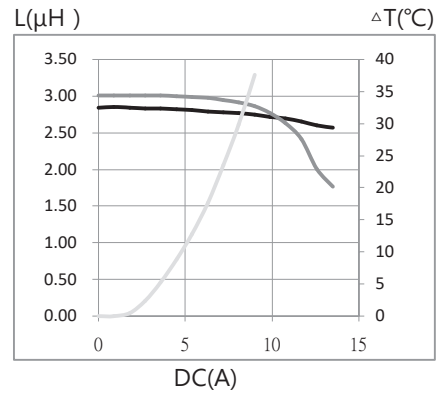
1. MTI-SDR1205A-1R5-T125



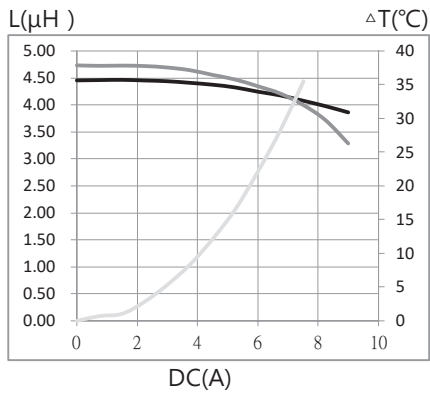
2. MTI-SDR1205A-2R2-T125



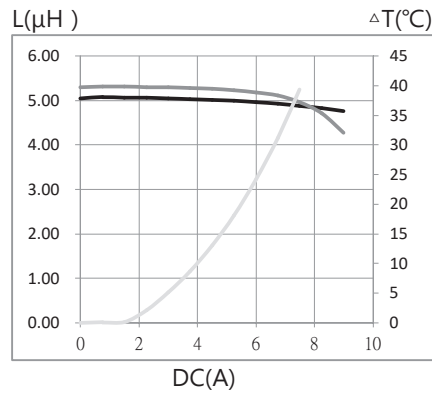
3. MTI-SDR1205A-2R7-T125



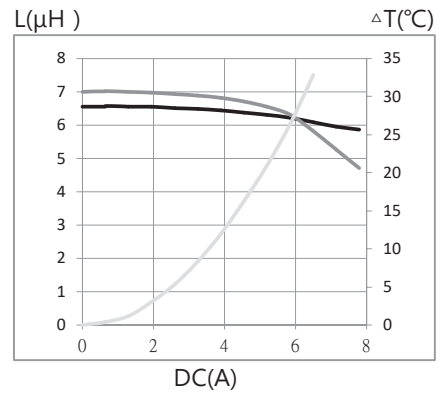
4. MTI-SDR1205A-4R3-T125



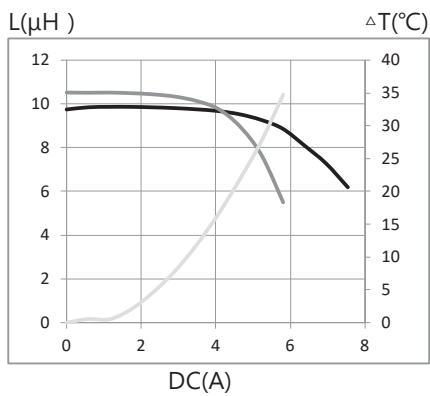
5. MTI-SDR1205A-5R6-T125



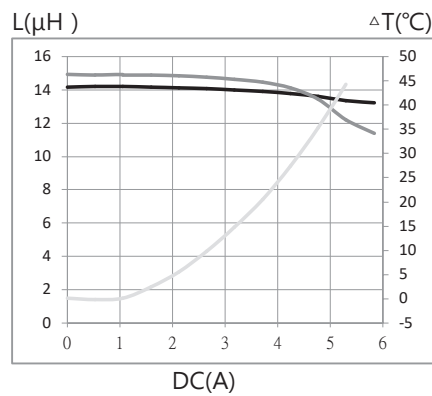
6. MTI-SDR1205A-6R8-T125



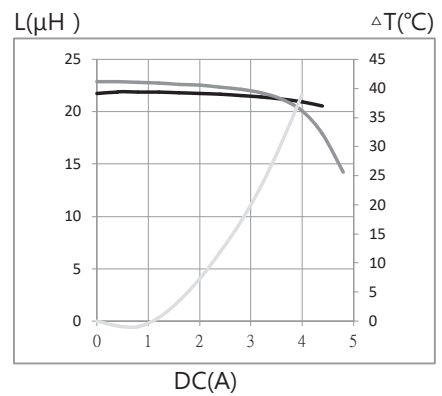
7. MTI-SDR1205A-100-T125



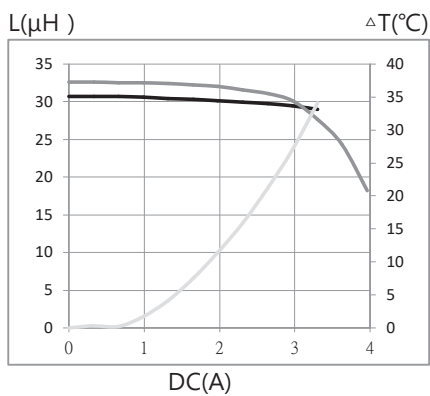
8. MTI-SDR1205A-150-T125



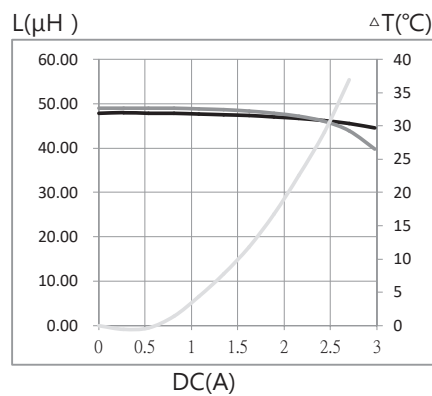
9. MTI-SDR1205A-220-T125



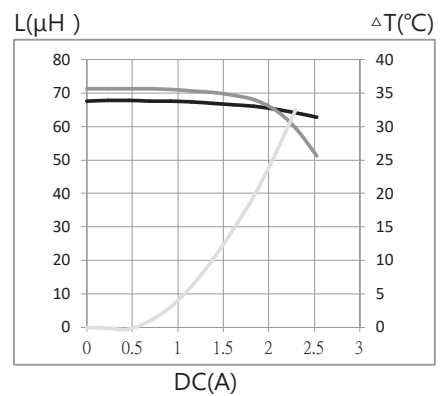
10. MTI-SDR1205A-330-T125



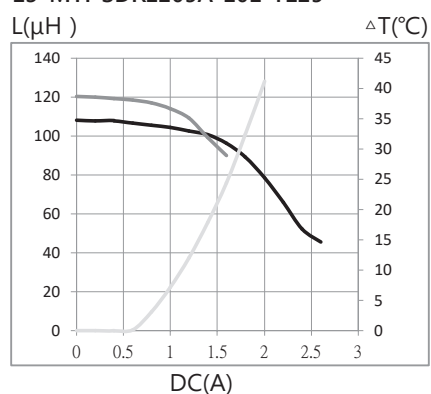
11. MTI-SDR1205A-470-T125



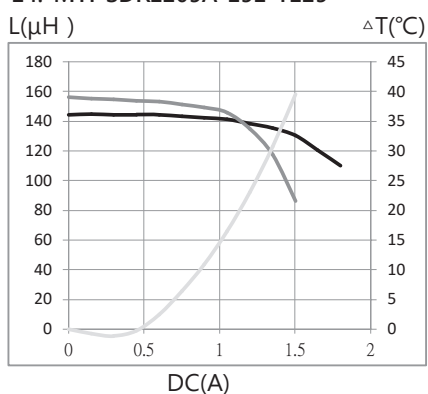
12. MTI-SDR1205A-680-T125



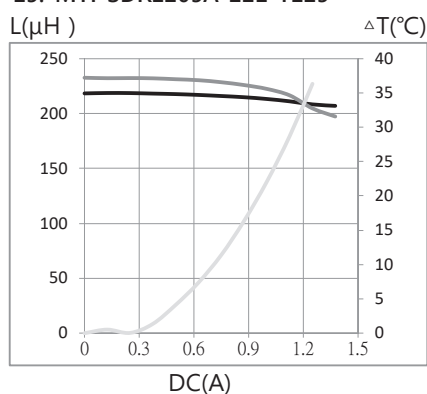
13 MTI-SDR1205A-101-T125



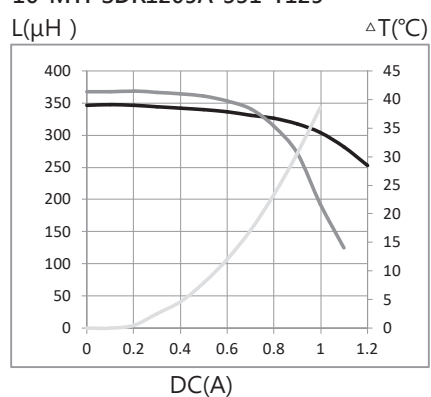
14. MTI-SDR1205A-151-T125



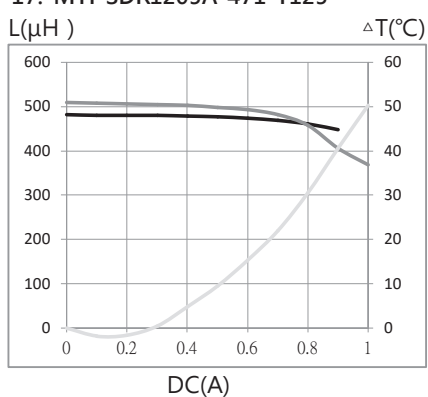
15. MTI-SDR1205A-221-T125



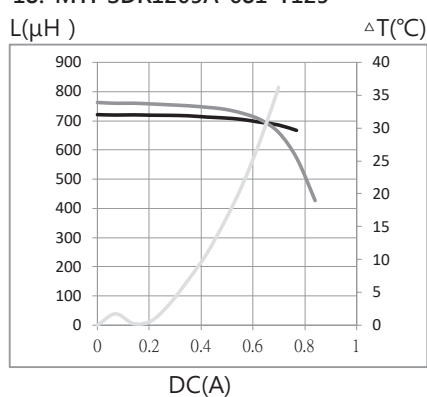
16 MTI-SDR1205A-331-T125



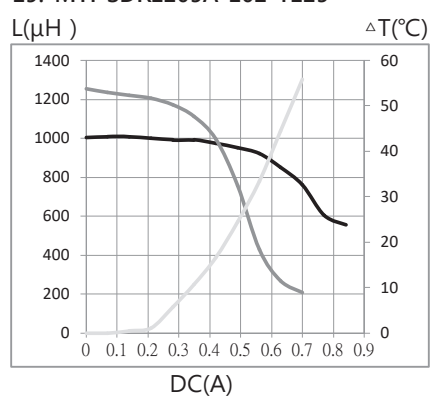
17. MTI-SDR1205A-471-T125



18. MTI-SDR1205A-681-T125



19. MTI-SDR1205A-102-T125

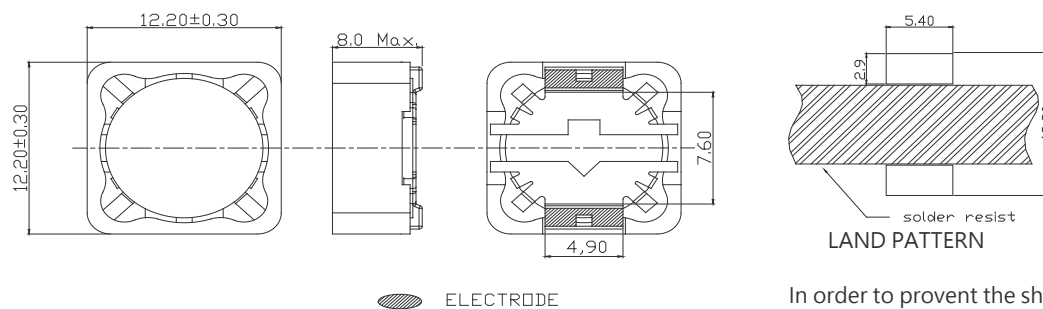


MTI-SDR1207A_{SERIES}

SMD Power Inductor



- Ferrite core construction
- L*W*H :12.5 * 12.5 *8.0 Max.
- High temperature inductor for Automotive application
- Operation temperature range : -40 degree to +125 degree
(Including coil's self temp. rise)
- RoHs compliance
- Halogen free available
- Qualified to AEC-Q200



In order to prevent the short-circuiting a solder resist is recommended

UNIT:mm

Electrical Specifications at 25°C

No.	Part Number	MARK	OCL(uH)	DCR (mohm)	Saturation Current (A)		Temperature Rise Current (A)
				Max. (Typ.)	At 25°C	At 125°C	
1	MTI-SDR1207A-2R7-T125	2R7	2.7±30%	8.2(6.3)	15.5	13.8	8.8
2	MTI-SDR1207A-3R6-T125	3R6	3.6±30%	9.9(7.6)	13.8	10.8	8
3	MTI-SDR1207A-4R7-T125	4R7	4.7±30%	10.2(7.8)	12.3	9.85	7.5
4	MTI-SDR1207A-6R2-T125	6R2	6.2±30%	11.1(8.5)	10.2	8.2	7
5	MTI-SDR1207A-7R5-T125	7R5	7.5±30%	12.6(9.7)	9.2	7.37	6.5
6	MTI-SDR1207A-100-T125	100	10.0±20%	17.1(13.7)	8.4	6.6	5.9
7	MTI-SDR1207A-150-T125	150	15.0±20%	20.8(16.6)	6.4	5.3	5.6
8	MTI-SDR1207A-220-T125	220	22.0±20%	34.7(27.8)	5.6	4.4	4.3
9	MTI-SDR1207A-330-T125	330	33.0±20%	53.0(40.9)	4.3	3.4	3.3
10	MTI-SDR1207A-470-T125	470	47.0±20%	76(60.0)	3.9	3.15	2.9
11	MTI-SDR1207A-680-T125	680	68.0±20%	93.5(74.4)	3.1	2.5	2.6
12	MTI-SDR1207A-101-T125	101	100±20%	155(124)	2.6	2.1	2
13	MTI-SDR1207A-151-T125	151	150±20%	206(165)	2.1	1.7	1.8
14	MTI-SDR1207A-221-T125	221	220±20%	322(257)	1.75	1.5	1.45
15	MTI-SDR1207A-331-T125	331	330±20%	398(319)	1.42	1.12	1.09
16	MTI-SDR1207A-471-T125	471	470±20%	695(556)	1.2	0.96	0.97
17	MTI-SDR1207A-681-T125	681	680±20%	1096(877)	0.98	0.79	0.71
18	MTI-SDR1207A-102-T125	102	1000±20%	1387(1110)	0.83	0.66	0.64

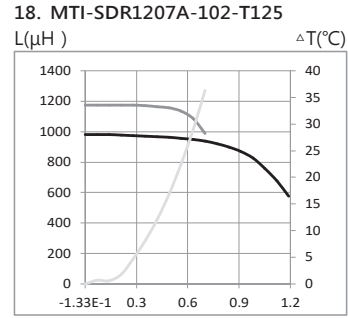
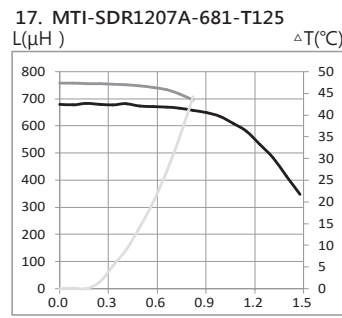
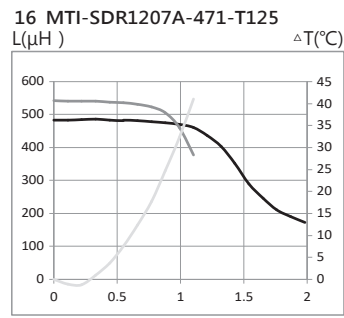
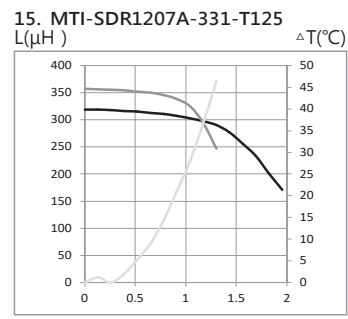
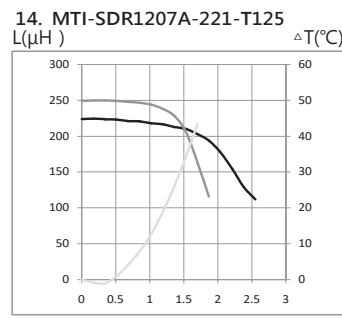
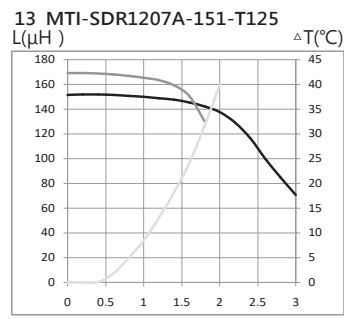
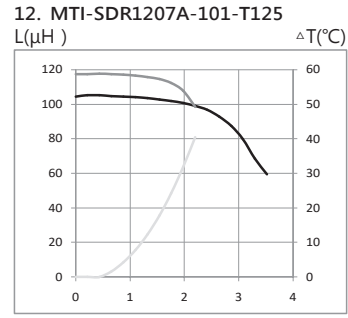
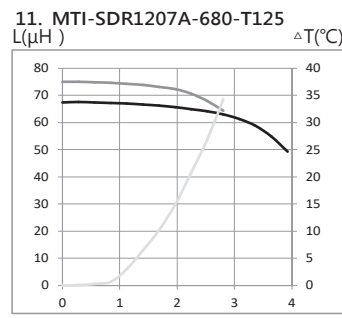
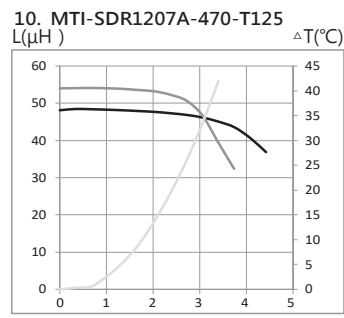
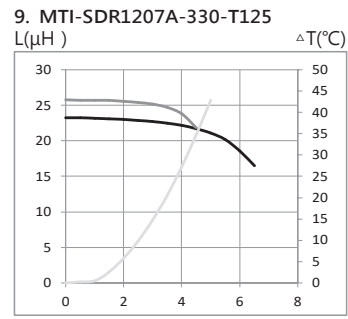
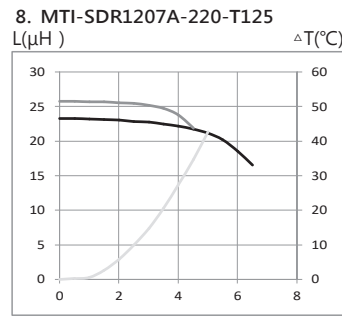
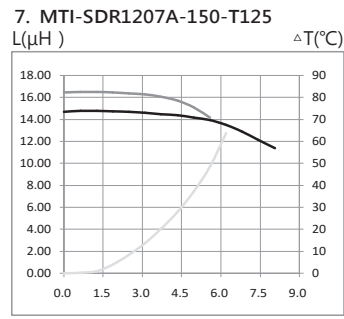
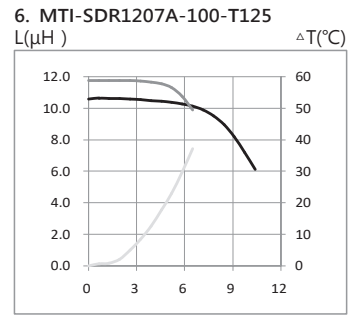
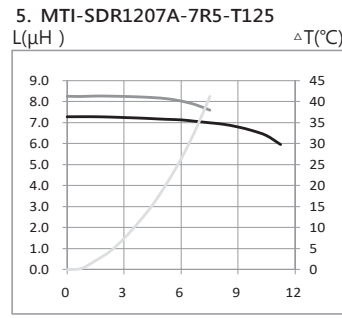
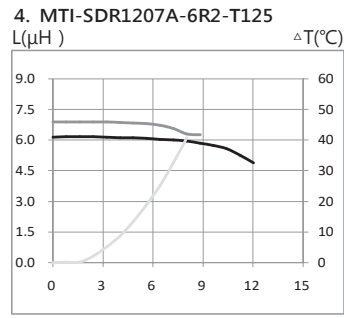
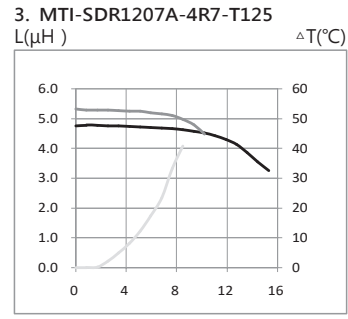
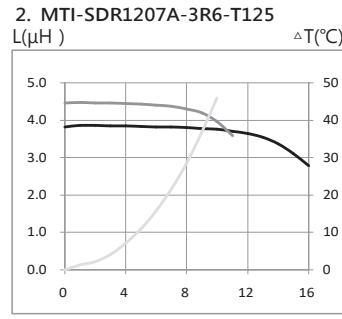
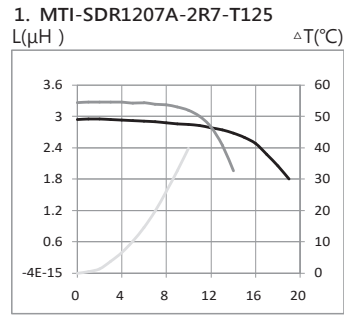
1. OCL Measuring condition is 100KHz · 0.1Vrms.

2. Saturation current: The value of D.C current when the inductance decreases to 65% of it's normal value.

3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$)

Saturated Current and Temperature Rise Graph.

— L(25°C) — L(125°C) — ΔT



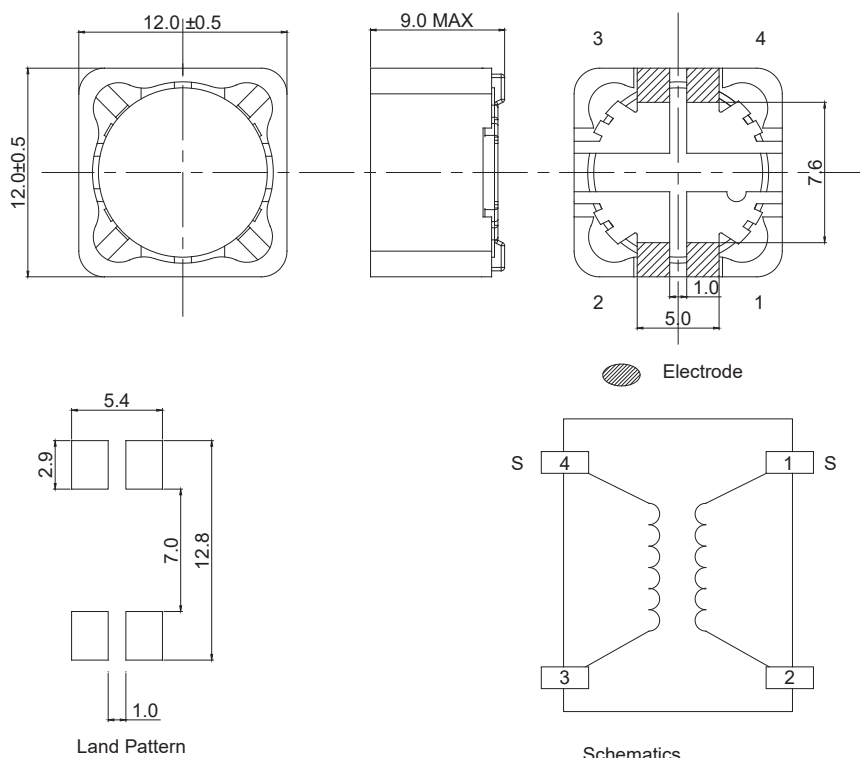
MTI-SDR1209A SERIES

SMD Power Inductor

NEW



- Ferrite core construction
- L*W*H :12.5 * 12.5 *9.0 Max.
- High temperature inductor for Automotive application
- Operation temperature range : -40 degree to +125 degree
(Including coil's self temp. rise)
- RoHs compliance
- Halogen free available
- Qualified to AEC-Q200



UNIT:mm

Electrical Specifications at 25°C

MTI-SDR1209A-151-T125

Measuring Item	PIN No.	Specification	Measuring condition
Inductance	(1-2)	150μH±20% within	1kHz, 1V
	(4-3)	40μH±20% within	1kHz, 1V
DCR	(1-2)	0.23 Ω Max (0.15 Ω Typ.)	at 20 °C
	(4-3)	0.66Ω Max (0.5 Ω Typ.)	at 21 °C
Saturation Current	(1-2)	2.1A	
	(4-3)	3.5A	
Temperature Rise Current	(1-2)	2.0A	
	(4-3)	1.0A	

1. Saturation current: The value of D.C current when the inductance decreases to 65% of it's normal value.

2. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$)



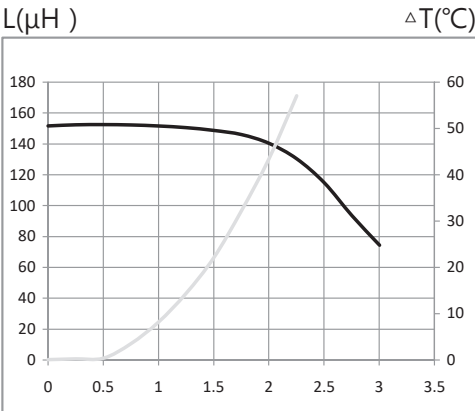
MTI-SDR1209A SERIES

SMD Power Inductor

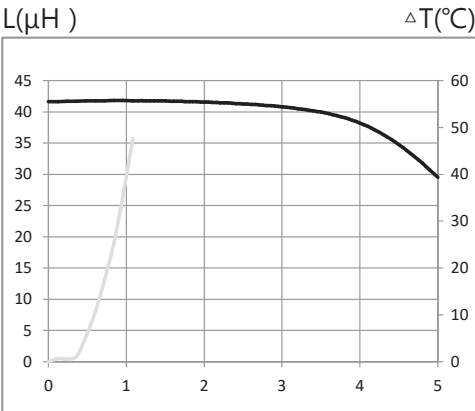
Saturated Current and Temperature Rise Graph.

———— L(25°C) ———— ΔT

MTI-SDR1209A-151-T125 (1-2)



MTI-SDR1209A-151-T125 (4-3)



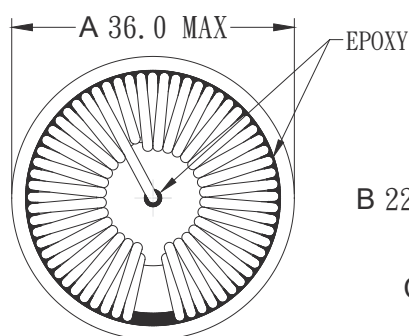
MTI-T3622A_{SERIES}

Inductors

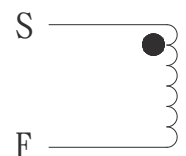
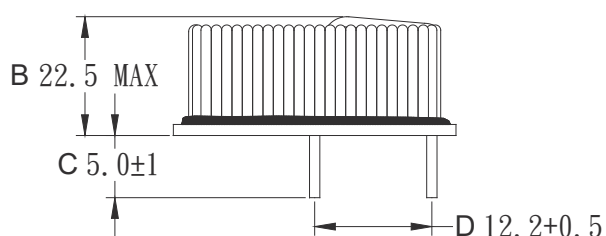
NEW



- Automotive applications
- Industrial applications
- Qualified to AEC-Q200
- RoHs compliant
- The base meets UL94 V-0 flammability.
- Operating Temperature -40°C to +125°C



(TOP VIEW)



UNIT:mm

Part Number	Inductance at 0A ±12% (uH)	Inductance at 8A	DCR max (mΩ)
MTI-T3622A-01	46	30.0uH MIN	21.0

1. Inductance is measured at 100kHz, 0.5Vrms.
2. Electrical specifications is measured at 25°C.

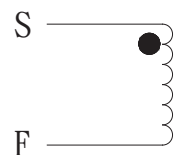
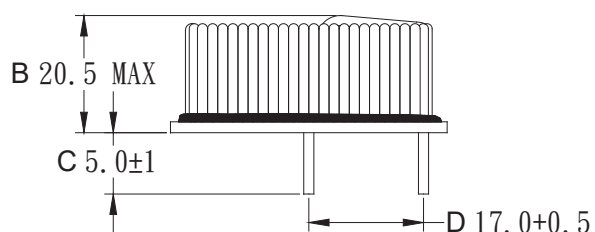
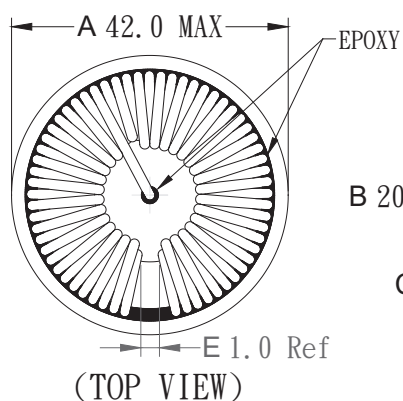
MTI-T4220A SERIES

Inductors



NEW

- Automotive applications
- Industrial applications
- Qualified to AEC-Q200
- RoHs compliant
- The base meets UL94 V-0 flammability.
- Operating Temperature -40°C to +125°C.



UNIT:mm

Part Number	Inductance at 0A ±12% (uH)	Inductance at 8A	DCR max (mΩ)
MTI-T4220A-01	70	50.0uH MIN	26.9
MTI-T4220A-02	94	70.0uH MIN	32.0
MTI-T4220A-03	128	90.0uH MIN	31.4

1. Inductance is measured at 100kHz, 0.5Vrms.
2. Electrical specifications is measured at 25°C.

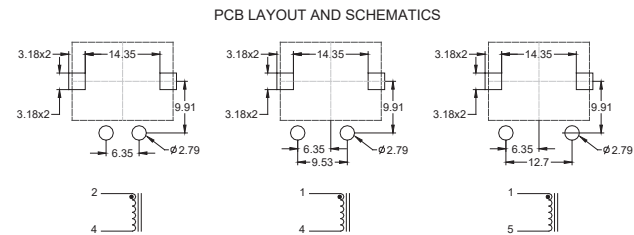
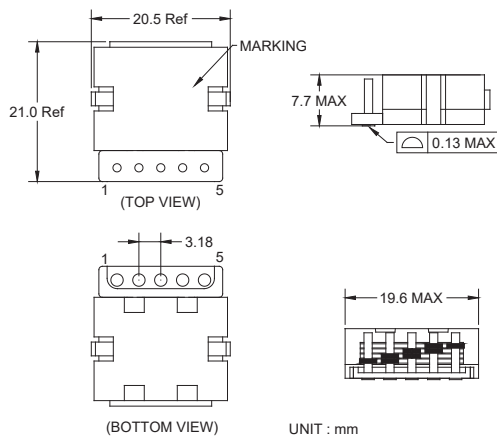
MTI-T4220A SERIES

MGT-580 SERIES

Planar Inductors



- Designed for high current
- Lowest DCR / Inductance, high efficiency
- Winding to core isolation is 300 Vrms



Part Number	Inductance @ Irated (μH± 15%)	Irated (ADC)	Inductance @ 0ADC (μH± 15%)	Saturation current(A)		Temperature Rise current (ADC)	DCR (mΩ) max. @20°C
				25°C	100°C		
				Isat (ADC)	Isat (ADC)		
2-Turns (Low-Loss) Series at Pin2~4							
MGT – 580 – 1 – R45	0.45	54	0.45	93	77	54	0.52
MGT – 580 – 1 – R65	0.63	54	0.65	69	56	54	0.52
MGT – 580 – 1 – R91	0.85	35	0.91	42	36	54	0.52
MGT – 580 – 1 – 1R1	1.05	34	1.10	40	33	54	0.52
MGT – 580 – 1 – 1R3	1.25	27	1.30	32	27	54	0.52
MGT – 580 – 1 – 1R5	1.45	23	1.50	28	25	54	0.52
2-Turns Series at Pin2~4							
MGT – 580 – 2 – R45	0.45	44	0.45	97	84	44	0.98
MGT – 580 – 2 – R65	0.63	44	0.65	73	58	44	0.98
MGT – 580 – 2 – R91	0.85	42	0.91	51	44	44	0.98
MGT – 580 – 2 – 1R1	1.05	34	1.10	40	35	44	0.98
MGT – 580 – 2 – 1R3	1.25	28	1.30	34	29	44	0.98
MGT – 580 – 2 – 1R5	1.45	23	1.50	28	24	44	0.98
3-Turns Series at Pin1~4							
MGT – 580 – 3 – 1R0	0.95	36	1.0	68	55	36	1.60
MGT – 580 – 3 – 1R5	1.40	36	1.5	46	36	36	1.60
MGT – 580 – 3 – 2R0	1.90	29	2.0	35	28	36	1.60
MGT – 580 – 3 – 2R5	2.40	22	2.5	26	22	36	1.60
MGT – 580 – 3 – 3R0	2.80	18	3.0	22	19	36	1.60
MGT – 580 – 3 – 3R5	3.40	15	3.5	18	16	36	1.60
4-Turns Series at Pin1~5							
MGT – 580 – 4 – 1R6	1.60	33	1.60	53	42	33	2.16
MGT – 580 – 4 – 2R42	2.40	29	2.42	36	30	33	2.16
MGT – 580 – 4 – 3R6	3.30	20	3.60	24	21	33	2.16
MGT – 580 – 4 – 4R4	4.00	15	4.40	18	16	33	2.16
MGT – 580 – 4 – 5R34	4.90	13	5.34	16	14	33	2.16
MGT – 580 – 4 – 6R2	5.80	11	6.20	13	12	33	2.16

1. Inductance measuring condition: at 100 KHz, 0.1 Vrms
2. Operating temperature range -40°C to +130°C (Including coil's self temperature rise)
3. Storage temperature range -25°C to +100°C.
4. The rated current as listed is either 85% of the saturation current or the heating current, depending on which value is lower.
5. The saturation current is the current which causes the inductance to drop by 15% at the stated ambient temperatures(25°C and 100°C),this current is determined by placing the component in the specified ambient environment and applying a short duration pulse current(to eliminate self-heating effects)to the component.
6. The heating current is the DC current which causes the temperature of the part to increase by approximately 40°C(Ta =25 degree)



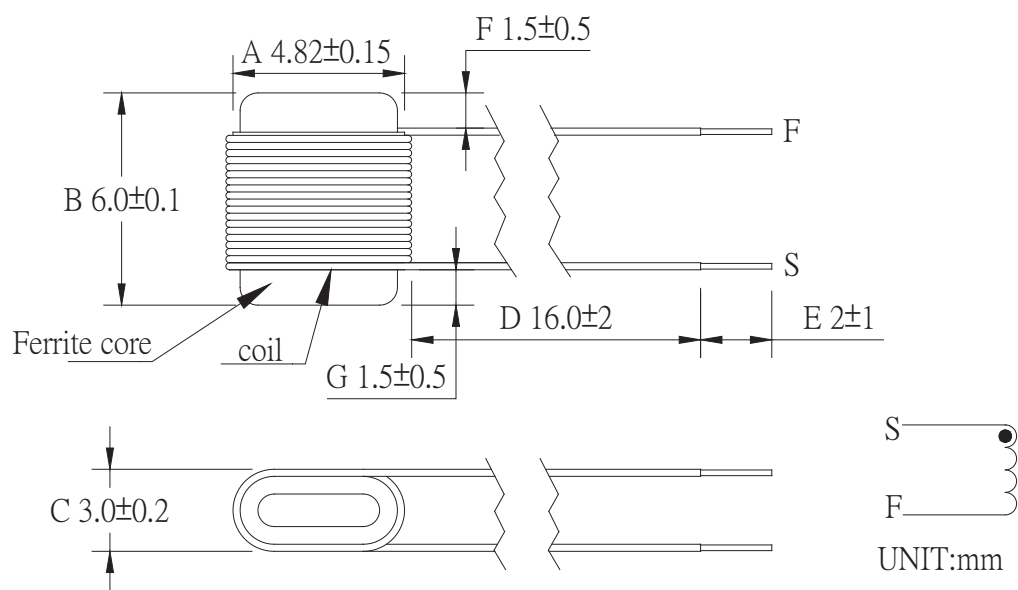
MGT-53100

Communication Coil RF



- Outline :
Communication coil for Near Field Induction (NFMI).
NFMI enables wireless ear to ear communication in hearing instruments or similar application.
- Key features:
 - Small size
 - High quality

Mechanical Dimensions:



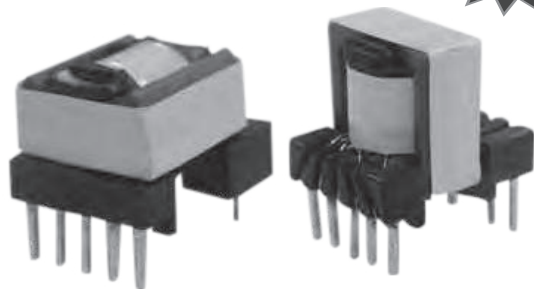
Parameters	Specification	Pin No.
Nominal Inductance L	$3.7\mu H \pm 10\%$	S-F
Q factor	55 MIN	S-F
DC Resistance	250m Ω Ref	S-F
1st Self-resonance Frequency	25MHz MINS-F	S-F

Measuring conditions:
1. Temperature $23^{\circ}\text{C} \pm 5$
2. Freq.=10MHz

MTF-DEPO/DPMO SERIES

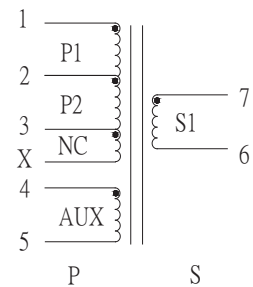
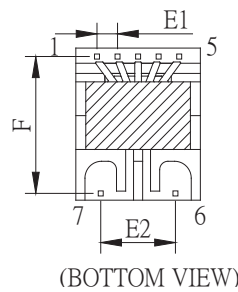
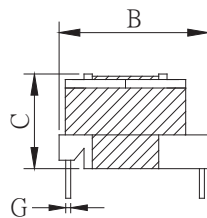
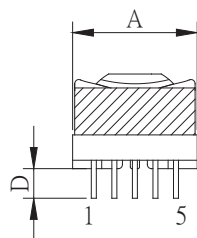
Power Transformers

NEW

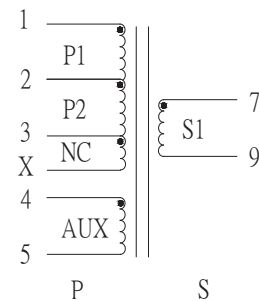
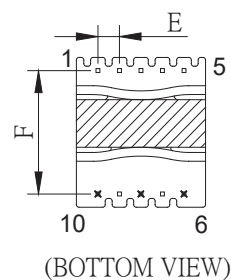
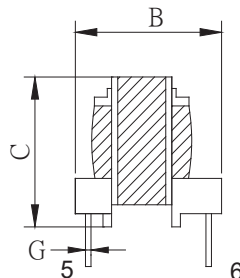
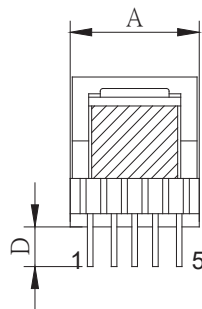


- Suitable for consumer product application
- Low leakage
- Low profile and high efficiency
- Operating Frequency : 50khz~100khz
- Operating temperature range : -40°C~+125°C
- RoHs compliance
- Halogen free available

EPO SERIES



PM SERIES



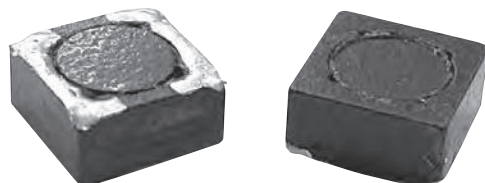
Part Number	b/n horizontal or vertical	DIMENSION unit: (mm)							ELECTRICAL SPECIFICATION		
		A (MAX)	B (MAX)	C (MAX)	D (±0.5)	E1/E2 (±0.3)	F (±0.5)	G (SQ)	Pw (PEAK) Watt	Lp (TYP) mH	HI-POT(Kvac) @3mA,2sec
MTF-DEPO12	H	14.5	18.5	12.5	3.5	2.5/7.8	14.5	0.6	5.2W	2.0±7%	3.6
MTF-DPM012	V	14.5	16.5	17.0	3.5	2.5	12.5	0.6	5.2W	2.0±7%	3.6
MTF-DEPO14	H	16.5	19.5	13.7	3.5	2.5/8.8	15.0	0.6	10.2W	1.0±6%	3.6
MTF-DPM014	V	16.5	18.2	18.5	3.5	2.5	14.0	0.6	10.2W	1.0±6%	3.6

NOTE:

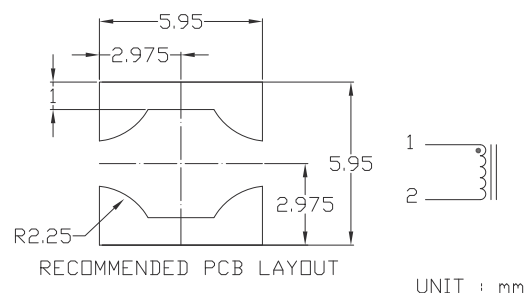
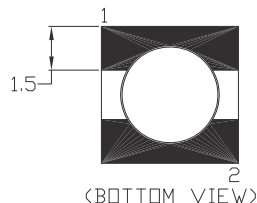
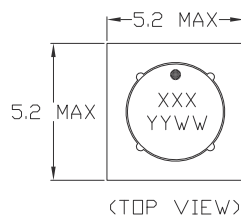
1. TEST FREQUENCY @65KHZ / 1 Vrms
2. Δt=45°C approximately under the temperature rise current

MGT-529^{SERIES}

SMD Shielded Power Inductors



- High inductance. High DC current capability.
- True surface mount design.
- Tape & Reel packaging standard, 3000pcs per 13"Reel.
- Magnetically shielded.
- RoHs compliant component.



Electrical Specifications at 25°C

Part Number	Inductance (±20% uH)	I _{rms} (max)	I _{sat} ² (A)	Dc resistance (typ Ω)
MGT – 529 – R47	0.466	3.88	6.0	0.0177
MGT – 529 – R82	0.770	3.58	4.7	0.0208
MGT – 529 – 1R2	1.15	3.33	3.8	0.0240
MGT – 529 – 1R5	1.61	3.12	3.2	0.0274
MGT – 529 – 2R2	2.14	2.93	2.8	0.0311
MGT – 529 – 3R3	3.43	2.64	2.2	0.0384
MGT – 529 – 4R7	5.03	2.39	1.8	0.0467
MGT – 529 – 6R8	6.93	2.19	1.6	0.0556
MGT – 529 – 8R2	7.99	1.92	1.5	0.0724
MGT – 529 – 100	10.35	1.80	1.3	0.0824
MGT – 529 – 150	14.45	1.67	1.1	0.0956
MGT – 529 – 220	22.81	1.34	0.86	0.1478
MGT – 529 – 330	33.07	1.11	0.72	0.2149
MGT – 529 – 470	47.89	0.919	0.60	0.3156
MGT – 529 – 680	68.64	0.741	0.48	0.4850
MGT – 529 – 820	82.17	0.713	0.44	0.5242
MGT – 529 – 101	100.79	0.670	0.40	0.7000
MGT – 529 – 151	148.4	0.553	0.33	0.8723
MGT – 529 – 221	222.4	0.446	0.27	1.3400
MGT – 529 – 331	332.2	0.359	0.22	2.0700
MGT – 529 – 471	472.4	0.293	0.185	3.1000
MGT – 529 – 681	677.2	0.262	0.155	3.8800
MGT – 529 – 821	826.7	0.230	0.14	5.0400
MGT – 529 – 102	1003.4	0.216	0.125	5.7000

1. Open circuit inductance test parameters: 100KHz, 0.25Vrms, 0.0Adc.
2. I_{sat} : DC current at which the inductance drops 30% (typ) from its value without current.
3. I_{rms} : Average current for 40°C temperature rise from 25°C ambient.
4. Operating temperature range : - 40°C to + 85°C.
5. Storage temperature range : - 40°C to + 125°C.



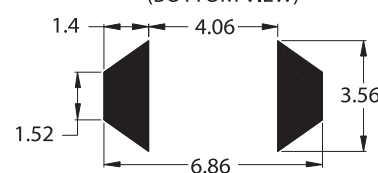
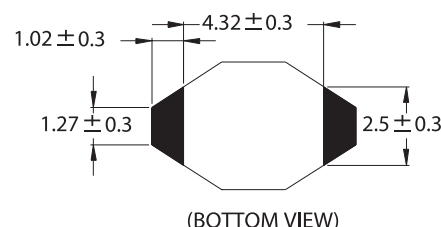
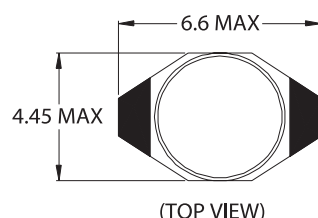
MGT-530_{SERIES}

SMD Power Inductors



- Designed in very small size, highest performance, and lowest cost
- Very low DCR and high-energy storage
- Ideal for application in DC-DC converters, LCD monitors, step-up or step-down converters, flash memory programmers, etc
- Custom versions available upon request
- Tape & Reel package

Mechanical Dimensions:



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ (μ H $\pm$ 20%)	DCR 20°C (Ω max.)	Isat ² (A dc)	Irms ³ (A)
MGT – 530 – 1R0	1.0	0.05	2.90	2.90
MGT – 530 – 1R5	1.5	0.05	2.60	2.80
MGT – 530 – 2R2	2.2	0.07	2.30	2.40
MGT – 530 – 3R3	3.3	0.08	2.00	2.00
MGT – 530 – 4R7	4.7	0.10	1.50	1.50
MGT – 530 – 6R8	6.8	0.13	1.20	1.40
MGT – 530 – 100	10.0	0.18	1.10	1.10
MGT – 530 – 150	15.0	0.23	0.90	1.20
MGT – 530 – 220	22.0	0.37	0.70	0.80
MGT – 530 – 330	33.0	0.51	0.58	0.60
MGT – 530 – 470	47.0	0.66	0.50	0.50
MGT – 530 – 680	68.0	0.92	0.40	0.40
MGT – 530 – 101	100.0	1.50	0.31	0.30
MGT – 530 – 151	150.0	2.20	0.27	0.25
MGT – 530 – 221	220.0	3.50	0.22	0.20
MGT – 530 – 331	330.0	4.80	0.18	0.16
MGT – 530 – 471	470.0	6.80	0.16	0.15
MGT – 530 – 681	680.0	9.50	0.14	0.12
MGT – 530 – 102	1000.0	13.8	0.10	0.07

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.

2. Inductance drop = 10% typ. at rated Isat.

3. Δ T = 40°C rise typ. at Irms.

4. Operating temperature range -40°C to + 85°C.

5. Electrical specifications at 25°C.

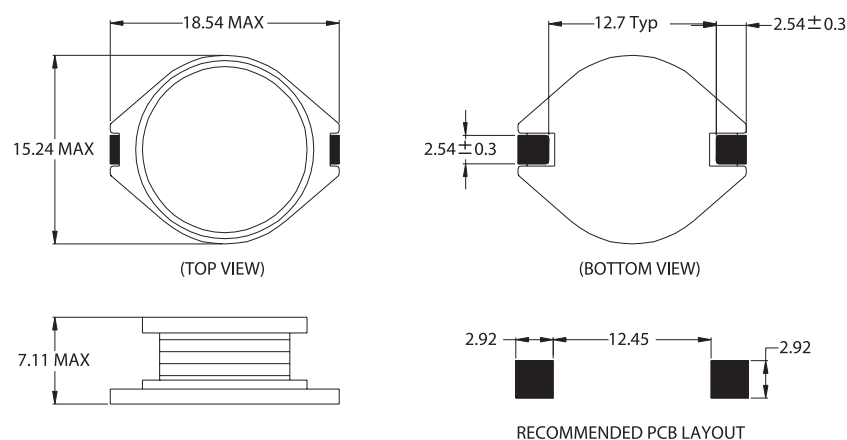
MGT-534_{SERIES}

SMD Power Inductors



- Very high current rating
- Up to 8.6 Arms, 20 Adc saturation current
- Flat top for reliable surface mounting
- Custom versions available upon request
- Tape & Reel package

Mechanical Dimensions:



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ (μ H $\pm$ 20%)	DCR 20°C (Ω max.)	Isat ² (Adc)	Irms ³ (A)
MGT – 534 – 1R0	1.0	0.009	20	8.6
MGT – 534 – 2R2	2.2	0.014	16	7.1
MGT – 534 – 3R3	3.3	0.018	14	6.2
MGT – 534 – 5R6	5.6	0.020	12	5.3
MGT – 534 – 100	10.0	0.031	10	4.3
MGT – 534 – 150	15.0	0.036	8.0	4.0
MGT – 534 – 220	22.0	0.047	7.0	3.5
MGT – 534 – 330	33.0	0.066	5.5	3.0
MGT – 534 – 470	47.0	0.086	4.5	2.6
MGT – 534 – 680	68.0	0.130	3.5	2.3
MGT – 534 – 101	100.0	0.190	3.0	1.8
MGT – 534 – 151	150.0	0.250	2.6	1.5
MGT – 534 – 221	220.0	0.380	2.4	1.2
MGT – 534 – 331	330.0	0.560	1.9	1.0
MGT – 534 – 471	470.0	0.850	1.4	0.82
MGT – 534 – 681	680.0	1.100	1.2	0.72
MGT – 534 – 102	1000.0	1.800	1.0	0.56

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.

2. Inductance drop = 10% typ. at rated Isat.

3. Δ T = 40°C rise typ. at Irms.

4. Operating temperature range -40°C to + 85°C.

5. Electrical specifications at 25°C.

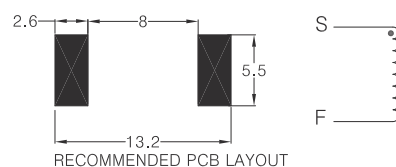
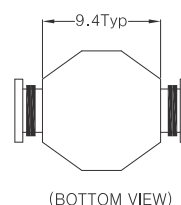
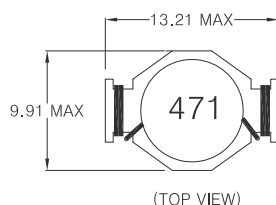


MGT-536A_{SERIES}

SMD Power Inductors



- Unshielded drum core.
- Height: 5.46m/m Max (5.97m/m Max for 1.0~10uH)
(5.72m/m Max for 15~100uH)
- Foot print: 9.91x13.21m/m Max.
- Current rating: Up to 10A
- Inductance range: 1.0uH to 2.2mH



UNIT : mm

Electrical Specifications at 25°C

Part Number	Inductance ¹ (uH ± 20%)	Dc resistance (mΩ Max.)	Isat ² (ADC Max.)	SRF (MHz Min)
MGT – 536A – 1R0	1.00	2.5	10.0	40
MGT – 536A – 1R5	1.50	3.5	8.50	35
MGT – 536A – 2R2	2.20	5.5	8.00	30
MGT – 536A – 3R3	3.30	7.5	6.80	25
MGT – 536A – 4R7	4.70	12.0	5.80	22
MGT – 536A – 6R8	6.80	16.0	4.60	16
MGT – 536A – 100	10.0	23.5	3.80	12
MGT – 536A – 150	15.0	37.0	3.20	10
MGT – 536A – 220	22.0	57.5	2.60	8.0
MGT – 536A – 330	33.0	76.5	2.00	6.0
MGT – 536A – 470	47.0	118	1.80	5.0
MGT – 536A – 680	68.0	151	1.45	4.0
MGT – 536A – 820	82.0	201	1.30	3.5
MGT – 536A – 101	100.0	251	1.20	2.5
MGT – 536A – 151	150.0	384	1.00	2.0
MGT – 536A – 221	220.0	518	0.84	1.5
MGT – 536A – 331	330.0	874	0.69	1.2
MGT – 536A – 471	470.0	1250	0.56	1.0
MGT – 536A – 681	680.0	1849	0.46	0.80
MGT – 536A – 102	1000.0	2800	0.39	0.50
MGT – 536A – 152	1500.0	4367	0.32	0.45
MGT – 536A – 222	2200.0	6108	0.26	0.40

1. Inductance tested at 100 KHz , 0.1 Vrms , 0 ADC.

2. Inductance drop = 10% typ. at rated Isat.

3. Reflow solder rating, 245°C for 10 sec.

4. Operating temperature range - 40°C to + 130°C.

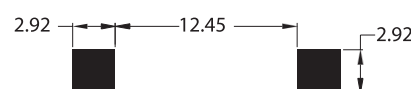
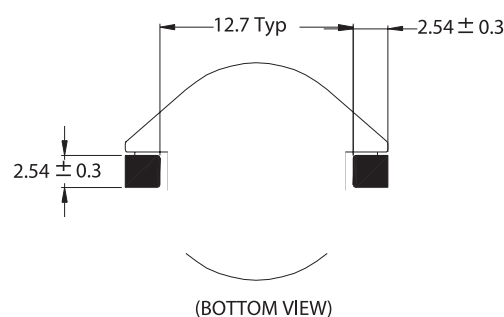
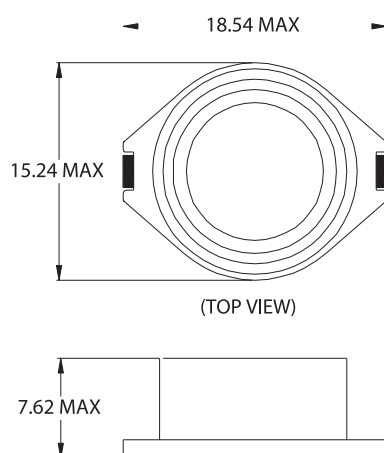
MGT-540_{SERIES}

SMD Power Inductors



- Magnetically shielded
- High current rating - up to 3.9 Arms, 8.0 Adc saturation current
- Very low DCR
- Flat top for surface mounting
- Custom versions available upon request
- Tape & Reel package

Mechanical Dimensions:



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ (μ H $\pm$ 20%)	DCR 20°C (m Ω max.)	Isat ² (Adc)	Irms ³ (A)
MGT – 540 – 100	1.0	40	8.00	3.90
MGT – 540 – 150	15	48	7.00	3.40
MGT – 540 – 220	22	59	6.00	3.10
MGT – 540 – 330	33	75	5.00	2.80
MGT – 540 – 470	47	97	4.00	2.40
MGT – 540 – 680	68	138	3.00	2.00
MGT – 540 – 101	100	207	2.40	1.70
MGT – 540 – 151	150	293	2.10	1.30
MGT – 540 – 221	220	470	1.90	1.10
MGT – 540 – 331	330	780	1.10	0.86
MGT – 540 – 471	470	1080	1.10	0.73
MGT – 540 – 681	680	1400	0.96	0.64
MGT – 540 – 102	1000	2010	0.80	0.53

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.
2. Inductance drop = 10% typ. at rated Isat.
3. $\Delta T = 40^\circ\text{C}$ rise typ. at Irms.
4. Operating temperature range -40°C to $+85^\circ\text{C}$
5. Electrical specifications at 25°C .



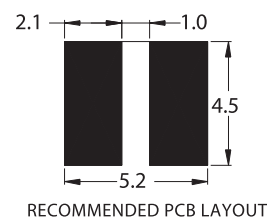
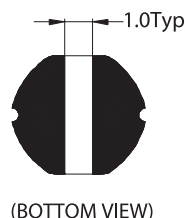
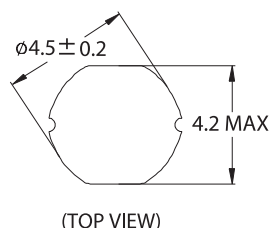
MGT-542^{SERIES}

SMD Power Inductors



- Only 4.2 x 4.5 x 3.5 mm (high)
- Very low DCR and high-energy storage
- Low cost for wide application
- Custom versions available upon request
- Tape & Reel package

Mechanical Dimensions:



UNIT:mm

Part Number	Inductance ¹ (μ H)	DCR 20°C (Ω Max.)	Isat ² (Adc)
MGT - 542 - 1R0	1.0	0.048	2.7
MGT - 542 - 1R5	1.5	0.056	2.6
MGT - 542 - 1R8	1.8	0.063	2.0
MGT - 542 - 2R2	1.8	0.071	1.9
MGT - 542 - 2R7	2.2	0.078	1.8
MGT - 542 - 3R3	2.7	0.086	1.7
MGT - 542 - 3R9	3.3	0.093	1.6
MGT - 542 - 4R7	3.9	0.108	1.5
MGT - 542 - 5R6	4.7	0.125	1.4
MGT - 542 - 6R8	5.6	0.131	1.3
MGT - 542 - 8R2	6.8	0.146	1.2
MGT - 542 - 100	8.2	0.182	1.1
MGT - 542 - 120	10	0.210	0.97
MGT - 542 - 150	12	0.235	0.85
MGT - 542 - 180	15	0.338	0.74
MGT - 542 - 220	18	0.378	0.68
MGT - 542 - 270	22	0.522	0.62
MGT - 542 - 330	33	0.540	0.56
MGT - 542 - 390	39	0.587	0.52
MGT - 542 - 470	47	0.844	0.44
MGT - 542 - 560	56	0.937	0.42
MGT - 542 - 680	68	1.117	0.37

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.
Tolerance 1.0 μ H~8.2 μ H $\pm$ 15% 10 μ H~68.0 μ H $\pm$ 10%
2. Inductance drop = 10% typ.at rated Isat.
3. $\Delta T = 45^\circ\text{C}$ rise typ.
4. Operating temperature range -40°C to + 85°C
5. Electrical specifications at 25°C.



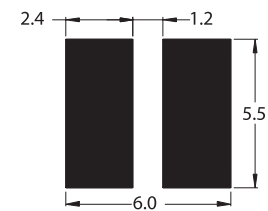
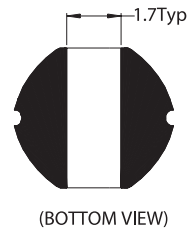
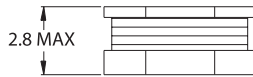
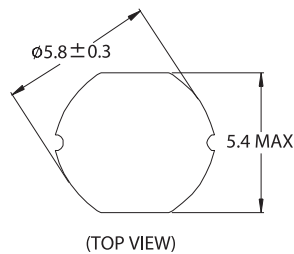
MGT-543_{SERIES}

SMD Power Inductors



- Very low profile - only 5.4 x 5.8 x 2.8 mm (high)
- Very low DCR and high-energy storage
- Low cost for wide application
- Custom versions available upon request
- Tape & Reel package

Mechanical Dimensions:



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ (μH)	DCR 20 °C (Ω max.)	Isat ² (Adc)
MGT - 543 - 1R2	1.20	0.050	4.20
MGT - 543 - 1R5	1.50	0.060	4.00
MGT - 543 - 1R8	1.80	0.065	3.70
MGT - 543 - 2R2	2.20	0.070	3.50
MGT - 543 - 2R7	2.70	0.080	3.20
MGT - 543 - 3R3	3.30	0.100	2.70
MGT - 543 - 3R9	3.90	0.120	2.40
MGT - 543 - 4R7	4.70	0.140	2.00
MGT - 543 - 5R6	5.60	0.150	1.80
MGT - 543 - 6R8	6.80	0.160	1.50
MGT - 543 - 8R2	8.20	0.170	1.40
MGT - 543 - 100	10.0	0.200	1.30
MGT - 543 - 120	12.0	0.230	1.10
MGT - 543 - 150	15.0	0.250	1.05
MGT - 543 - 180	18.0	0.300	1.00
MGT - 543 - 220	22.0	0.350	0.90
MGT - 543 - 270	27.0	0.400	0.85
MGT - 543 - 330	33.0	0.500	0.75
MGT - 543 - 390	39.0	0.550	0.70
MGT - 543 - 470	47.0	0.650	0.60
MGT - 543 - 560	56.0	0.750	0.55
MGT - 543 - 680	68.0	0.950	0.50
MGT - 543 - 820	82.0	1.200	0.45
MGT - 543 - 101	100.0	1.400	0.40
MGT - 543 - 121	120.0	1.750	0.35
MGT - 543 - 151	150.0	2.000	0.25
MGT - 543 - 181	180.0	2.600	0.22
MGT - 543 - 221	220.0	3.000	0.20
MGT - 543 - 271	270.0	3.700	0.18
MGT - 543 - 331	330.0	4.300	0.17
MGT - 543 - 391	390.0	6.000	0.16
MGT - 543 - 471	470.0	6.700	0.15

1. Inductance tested at 100kHz, 0.1Vrms,0Adc.

Tolerance 1.2 μH~8.2 μH ± 15% 10.0 μH~470.0 μH ± 10%

2. Inductance drop = 10% typ. at rated Isat.

3. ΔT = 45°C rise typ.

4. Operating temperature range -40°C to + 85°C.

5. Electrical specifications at 25°C.



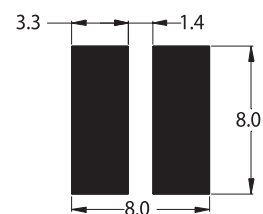
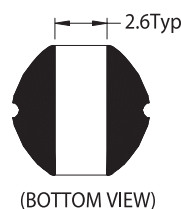
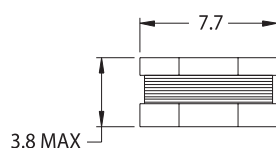
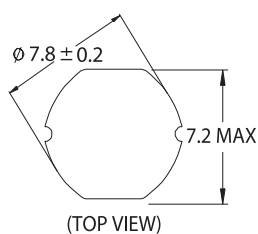
MGT-546_{SERIES}

SMD Power Inductors



- Low profile—only 7.2 x 7.8 x 3.8 mm (high)
- Low DCR and high current
- Low cost for wide application
- Custom versions available upon request
- Tape & Reel package

Mechanical Dimensions:



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ ($\mu\text{H} \pm 10\%$)	DCR 20°C (Ω Max.)	Isat ² (A dc)
MGT - 546 - 100	10	0.080	1.44
MGT - 546 - 120	12	0.089	1.39
MGT - 546 - 150	15	0.104	1.24
MGT - 546 - 180	18	0.111	1.12
MGT - 546 - 220	22	0.129	1.07
MGT - 546 - 270	27	0.153	0.94
MGT - 546 - 330	33	0.170	0.85
MGT - 546 - 390	39	0.217	0.74
MGT - 546 - 470	47	0.252	0.68
MGT - 546 - 560	56	0.282	0.64
MGT - 546 - 680	68	0.332	0.59
MGT - 546 - 820	82	0.406	0.54
MGT - 546 - 101	100	0.481	0.51
MGT - 546 - 121	120	0.536	0.49
MGT - 546 - 151	150	0.755	0.40
MGT - 546 - 181	180	1.022	0.36
MGT - 546 - 221	220	1.200	0.31
MGT - 546 - 271	270	1.306	0.29
MGT - 546 - 331	330	1.495	0.28

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.
2. Inductance drop = 10% typ. at rated Isat.
3. $\Delta T = 45^\circ\text{C}$ rise typ.
4. Operating temperature range -40°C to $+85^\circ\text{C}$.
5. Electrical specifications at 25°C .

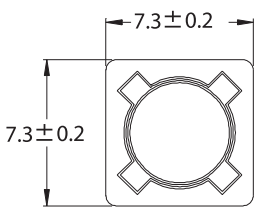
MGT-551_{SERIES}

SMD Power Inductors

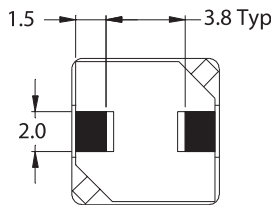


- Magnetically shielded
- High current
- Very low DCR
- Low cost for wide application
- Custom versions available upon request
- Tape & Reel package

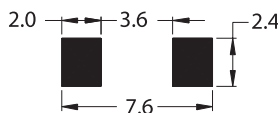
Mechanical Dimensions:



(TOP VIEW)



(BOTTOM VIEW)



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ ($\mu\text{H} \pm 20\%$)	DCR 20°C (Ω Max.)	Isat ² (Adc)
MGT - 551 - 100	10	0.056	1.84
MGT - 551 - 120	12	0.072	1.71
MGT - 551 - 150	15	0.090	1.47
MGT - 551 - 180	18	0.098	1.31
MGT - 551 - 220	22	0.120	1.23
MGT - 551 - 270	27	0.160	1.12
MGT - 551 - 330	33	0.185	0.96
MGT - 551 - 390	39	0.230	0.91
MGT - 551 - 470	47	0.260	0.88
MGT - 551 - 560	56	0.350	0.75
MGT - 551 - 680	68	0.380	0.69
MGT - 551 - 820	82	0.430	0.61
MGT - 551 - 101	100	0.610	0.60
MGT - 551 - 121	120	0.660	0.52
MGT - 551 - 151	150	0.880	0.46
MGT - 551 - 181	180	0.980	0.42
MGT - 551 - 221	220	1.170	0.36
MGT - 551 - 271	270	1.640	0.34
MGT - 551 - 331	330	1.860	0.32
MGT - 551 - 391	390	2.850	0.29
MGT - 551 - 471	470	3.010	0.26
MGT - 551 - 561	560	3.620	0.23
MGT - 551 - 681	680	4.630	0.22
MGT - 551 - 821	820	5.200	0.20
MGT - 551 - 102	1000	6.000	0.18

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.
2. Inductance drop = 25% typ. at rated Isat.
3. $\Delta T = 45^\circ\text{C}$ rise typ.
4. Operating temperature range -40°C to $+85^\circ\text{C}$.
5. Electrical specifications at 25°C .

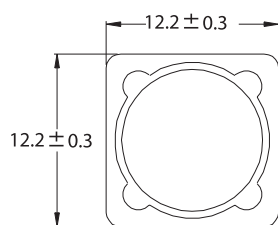
MGT-552^{SERIES}

SMD Power Inductors

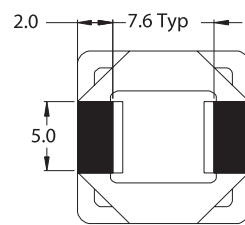


- Magnetically shielded
- High current—up to 6.5 Adc saturation current
- Very low DCR
- Low cost for wide application
- Custom versions available upon request
- Tape & Reel package

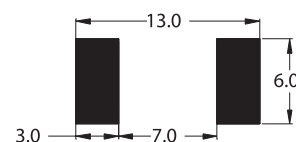
Mechanical Dimensions:



(TOP VIEW)



(BOTTOM VIEW)



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ ($\mu\text{H} \pm 20\%$)	DCR 20°C (Ω Max.)	Isat ² (Adc)
MGT - 552 - 3R9	3.9	0.016	6.5
MGT - 552 - 4R7	4.7	0.020	5.7
MGT - 552 - 6R8	6.8	0.025	4.9
MGT - 552 - 8R2	8.2	0.032	4.6
MGT - 552 - 100	10	0.036	4.5
MGT - 552 - 120	12	0.041	4.0
MGT - 552 - 150	15	0.050	3.2
MGT - 552 - 180	18	0.057	3.1
MGT - 552 - 220	22	0.072	2.9
MGT - 552 - 270	27	0.080	2.8
MGT - 552 - 330	33	0.097	2.7
MGT - 552 - 390	39	0.132	2.1
MGT - 552 - 470	47	0.150	1.9
MGT - 552 - 560	56	0.190	1.8
MGT - 552 - 680	68	0.220	1.5
MGT - 552 - 820	82	0.260	1.3
MGT - 552 - 101	100	0.308	1.2
MGT - 552 - 121	120	0.380	1.1
MGT - 552 - 151	150	0.530	0.95
MGT - 552 - 181	180	0.620	0.85
MGT - 552 - 221	220	0.700	0.8
MGT - 552 - 270	270	0.876	0.6
MGT - 552 - 331	330	0.990	0.5

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.
2. Inductance drop = 25% typ. at rated Isat.
3. $\Delta T = 45^\circ\text{C}$ rise typ.
4. Operating temperature range -40°C to $+85^\circ\text{C}$.
5. Electrical specifications at 25°C .

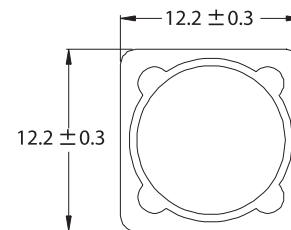
MGT-554^{SERIES}

SMD Power Inductors

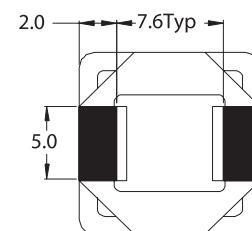


- Magnetically shielded
- Very high current—up to 10 Adc saturation current
- Very low DCR
- Low cost for wide application
- Custom versions available upon request
- Tape & Reel package

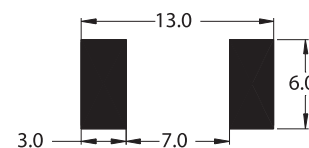
Mechanical Dimensions:



(TOP VIEW)



(BOTTOM VIEW)



RECOMMENDED PCB LAYOUT



UNIT:mm

Part Number	Inductance ¹ (μ H)	DCR 20°C (m Ω max.)	Isat ² (Adc)
MGT - 554 - 1R2	1.2	7	10
MGT - 554 - 1R8	1.8	8	9.5
MGT - 554 - 2R4	2.4	12	9.0
MGT - 554 - 3R5	3.5	14	8.2
MGT - 554 - 4R7	4.7	16	7.0
MGT - 554 - 6R1	6.1	18	6.8
MGT - 554 - 6R8	6.8	19	6.6
MGT - 554 - 8R2	8.2	20	5.9
MGT - 554 - 100	10	22	5.4
MGT - 554 - 120	12	25	4.9
MGT - 554 - 150	15	27	4.5
MGT - 554 - 180	18	40	3.9
MGT - 554 - 220	22	44	3.6
MGT - 554 - 270	27	46	3.4
MGT - 554 - 330	33	65	3.0
MGT - 554 - 390	39	73	2.8
MGT - 554 - 470	47	100	2.5
MGT - 554 - 560	56	110	2.3
MGT - 554 - 680	68	140	2.1
MGT - 554 - 820	82	160	1.95
MGT - 554 - 101	100	220	1.7
MGT - 554 - 121	120	250	1.6
MGT - 554 - 151	150	280	1.4
MGT - 554 - 181	180	350	1.3
MGT - 554 - 221	220	390	1.2
MGT - 554 - 271	270	560	1.0
MGT - 554 - 331	330	640	0.95
MGT - 554 - 391	390	700	0.88
MGT - 554 - 471	470	980	0.79
MGT - 554 - 561	560	1070	0.73
MGT - 554 - 681	680	1460	0.67
MGT - 554 - 821	820	1640	0.60
MGT - 554 - 102	1000	1820	0.55

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.

Tolerance : 1.2 μ H~8.2 μ H +40%/-20% 10 μ H~1000 μ H $\pm$ 20%

2. Inductance drop = 25% typ. at rated Isat.

3. Δ T = 45°C rise typ.

4. Operating temperature range -40°C to + 85°C.

5. Electrical specifications at 25°C.

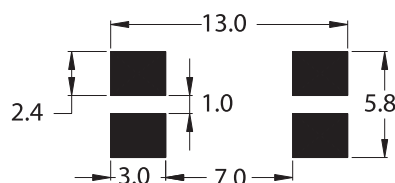
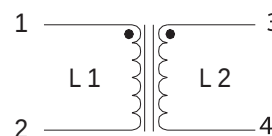
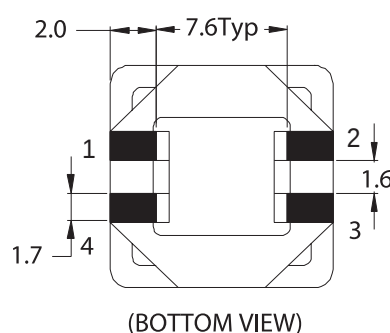
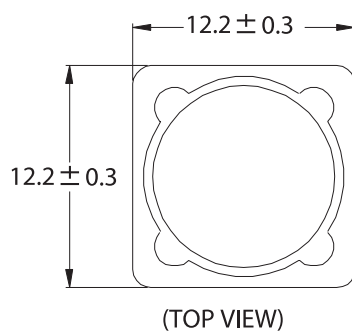
MGT-555_{SERIES}

SMD Transformers



- Very low profile transformer
- Magnetically shielded
- Low cost
- Ideal for DC-DC converter, PC, PDA, Power supply applications
- Custom versions available upon request
- Tape & Reel package

Mechanical Dimensions:



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ (μ H $\pm$ 30%)		DCR 20°C (m Ω max.)		Turn ratio (L1 : L2)	Isat ² (Adc)
	L1	L2	L1	L2		
MGT - 555 - 1022	10	45	36	590	1 : 2.2	4.0
MGT - 555 - 1024	10	47	39	600	1 : 2.4	4.0

1. Inductance tested at 1kHz, 1Vrms, 0Adc.
2. L1 inductance drop = 25% typ. at rated Isat.
3. Δ T = 45°C rise typ.
4. Operating temperature range -40°C to + 85°C.
5. Electrical specifications at 25°C.

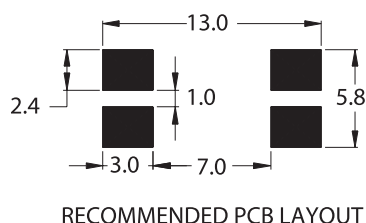
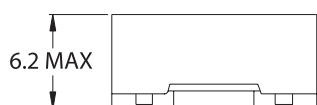
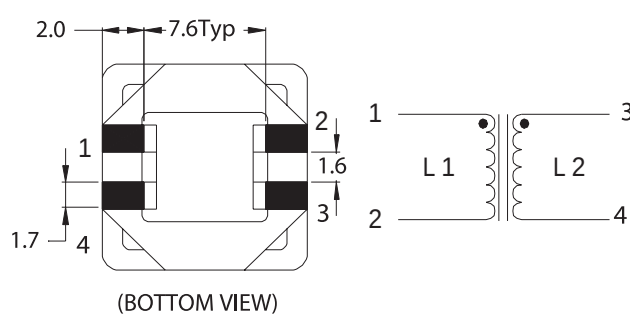
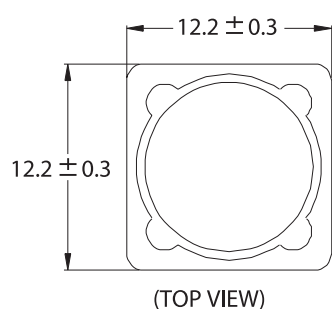
MGT-556 SERIES

SMD Transformers



- Low profile Magnetically shielded transformer
- Low DCR
- Low cost
- Ideal for DC-DC converter, PC, PDA, Power supply applications
- Custom versions available upon request
- Tape & Reel package

Mechanical Dimensions:



UNIT:mm

Part Number	Inductance ¹ (μ H $\pm$ 30%)		DCR 20°C (m Ω max.)		Turn ratio (L1 : L2)	Isat ² (Adc)
	L1	L2	L1	L2		
MGT - 556 - 5622	5.6	26.5	20	220	1 : 2.2	5.3
MGT - 556 - 6822	6.8	32	21	250	1 : 2.2	5.0
MGT - 556 - 8220	8.2	32	22	260	1 : 2.0	4.7
MGT - 556 - 8222	8.2	35	22	270	1 : 2.2	4.7
MGT - 556 - 1014	10	21	27	182	1 : 1.4	4.3
MGT - 556 - 1016	10	25	27	220	1 : 1.6	4.3
MGT - 556 - 1022	10	45	27	300	1 : 2.2	4.3
MGT - 556 - 1220	12	45	30	300	1 : 2.0	4.0

1. Inductance tested at 1kHz, 1Vrms, 0Adc.
2. L1 inductance drop = 25% typ. at rated Isat.
3. Δ T = 45°C rise typ.
4. Operating temperature range -40°C to + 85°C.
5. Electrical specifications at 25°C.

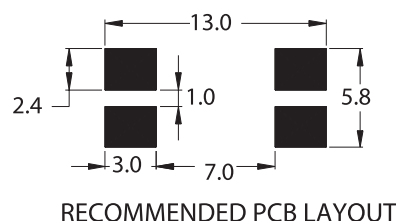
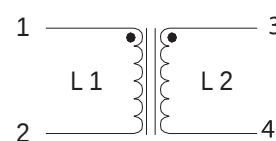
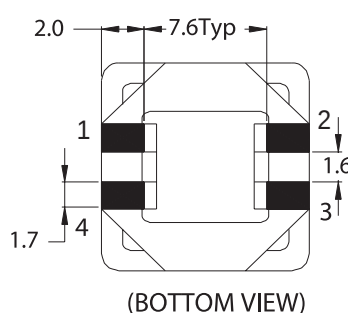
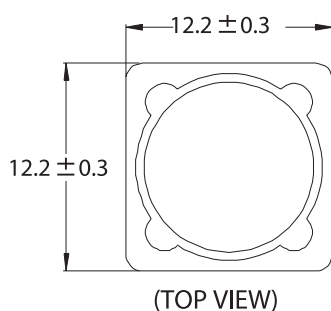
MGT-557 SERIES

SMD Transformers



- Low profile Magnetically shielded transformer
- High current - up to 7 Adc saturation current
- Low cost
- Ideal for DC-DC converter, PC, PDA, Power supply applications
- Custom versions available upon request
- Tape & Reel package

Mechanical Dimensions:



UNIT:mm

Part Number ¹	Inductance ¹ (μ H $\pm$ 30%)		DCR 20°C (m Ω max.)		Turn ratio (L1 : L2)	Isat ² (Adc)
	L1	L2	L1	L2		
MGT - 557 - 7622	7.6	38	25	300	1 : 2.2	7.0
MGT - 557 - 1022	10	45	30	320	1 : 2.2	4.5
MGT - 557 - 1042	10	178	30	660	1 : 4.2	4.5

1. Inductance tested at 1kHz, 1Vrms, 0Adc.
2. L1 inductance drop = 25% typ. at rated Isat.
3. ΔT = 45°C rise typ.
4. Operating temperature range -40°C to +85°C.
5. Electrical specifications at 25°C.

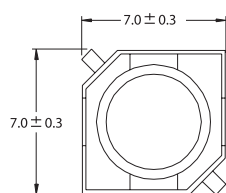
MGT-562^{SERIES}

SMD Power Inductors

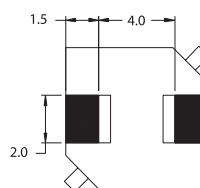


- Magnetically shielded
- Very low profile—only 7.0 x 7.0 x 3.6 mm (high)
- High current
- Low cost for wide application
- Custom versions available upon request
- Tape & Reel package

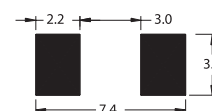
Mechanical Dimensions:



(TOP VIEW)



(BOTTOM VIEW)



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ (μ H)	DCR 20°C (Ω Max.)	Isat ² (Adc)
MGT - 562 - 3R0	3.0	0.027	3.00
MGT - 562 - 3R9	3.9	0.030	2.60
MGT - 562 - 5R0	5.0	0.037	2.40
MGT - 562 - 6R0	6.0	0.041	2.25
MGT - 562 - 7R3	7.3	0.054	2.10
MGT - 562 - 8R6	8.6	0.058	1.85
MGT - 562 - 100	10	0.065	1.70
MGT - 562 - 120	12	0.070	1.55
MGT - 562 - 150	15	0.084	1.40
MGT - 562 - 180	18	0.095	1.32
MGT - 562 - 220	22	0.128	1.20
MGT - 562 - 270	27	0.156	1.05
MGT - 562 - 330	33	0.201	0.97
MGT - 562 - 390	39	0.215	0.86
MGT - 562 - 470	47	0.238	0.80
MGT - 562 - 560	56	0.296	0.73
MGT - 562 - 680	68	0.325	0.65
MGT - 562 - 820	82	0.420	0.60
MGT - 562 - 101	100	0.535	0.54
MGT - 562 - 121	120	0.750	0.51
MGT - 562 - 151	150	0.950	0.47
MGT - 562 - 181	180	1.200	0.41
MGT - 562 - 221	220	1.500	0.37
MGT - 562 - 271	270	1.700	0.33
MGT - 562 - 331	330	2.150	0.28
MGT - 562 - 391	390	2.250	0.27
MGT - 562 - 471	470	3.150	0.21
MGT - 562 - 561	560	3.750	0.20
MGT - 562 - 681	680	5.150	0.20

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.

Tolerance 3.0 μ H~8.6 μ H $\pm$ 30% 10.0 μ H~680.0 μ H $\pm$ 20%

2. Inductance drop = 35% typ. at rated Isat.

3. $\Delta T = 45^\circ\text{C}$ rise typ.

4. Operating temperature range -40°C to $+85^\circ\text{C}$.

5. Electrical specifications at 25°C .



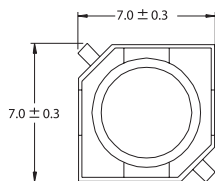
MGT-563 SERIES

SMD Power Inductors

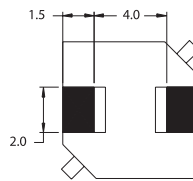


- Magnetically shielded
- Low profile—only 7.0 x 7.0 x 4.7 mm (high)
- High current—up to 3.5 Adc saturation current
- Low cost for wide application
- Custom versions available upon request
- Tape & Reel package

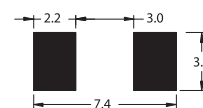
Mechanical Dimensions:



(TOP VIEW)



(BOTTOM VIEW)



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ (μ H)	DCR 20°C (Ω Max.)	Isat ² (Adc)
MGT - 563 - 3R3	3.3	0.026	3.50
MGT - 563 - 5R0	5.0	0.032	2.90
MGT - 563 - 6R2	6.2	0.035	2.50
MGT - 563 - 7R4	7.4	0.038	2.30
MGT - 563 - 8R7	8.7	0.043	2.20
MGT - 563 - 100	10	0.046	2.00
MGT - 563 - 120	12	0.053	1.70
MGT - 563 - 150	15	0.065	1.60
MGT - 563 - 180	18	0.092	1.50
MGT - 563 - 220	22	0.096	1.30
MGT - 563 - 270	27	0.109	1.20
MGT - 563 - 330	33	0.124	1.10
MGT - 563 - 390	39	0.138	1.00
MGT - 563 - 470	47	0.155	0.95
MGT - 563 - 560	56	0.202	0.85
MGT - 563 - 680	68	0.250	0.75
MGT - 563 - 820	82	0.324	0.70
MGT - 563 - 101	100	0.358	0.65
MGT - 563 - 121	120	0.470	0.59
MGT - 563 - 151	150	0.580	0.54
MGT - 563 - 181	180	0.690	0.49
MGT - 563 - 221	220	0.890	0.43
MGT - 563 - 271	270	1.290	0.40
MGT - 563 - 331	330	1.700	0.37
MGT - 563 - 391	390	1.750	0.34
MGT - 563 - 471	470	2.200	0.32
MGT - 563 - 561	560	2.850	0.29
MGT - 563 - 681	680	3.200	0.25
MGT - 563 - 821	820	4.050	0.22
MGT - 563 - 102	1000	5.700	0.20

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.

Tolerance 3.3 μ H~8.7 μ H $\pm$ 30% 10.0 μ H~1000.0 μ H $\pm$ 20%

2. Inductance drop = 35% typ. at rated Isat.

3. $\Delta T = 45^\circ\text{C}$ rise typ.

4. Operating temperature range -40°C to $+85^\circ\text{C}$.

5. Electrical specifications at 25°C .

MGT-567

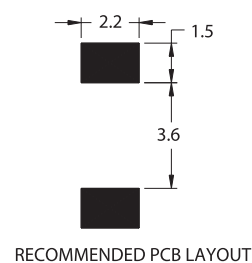
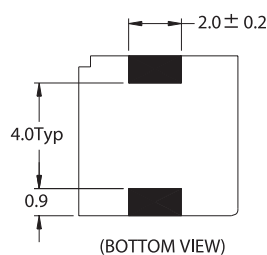
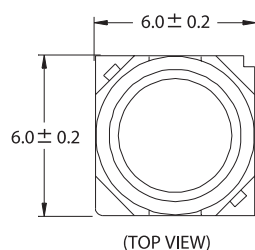
SERIES

SMD Power Inductors



- Magnetically shielded
- Low profile—only 6.0 x 6.0 x 2.8 mm (high)
- Low cost for general purposes application
- Custom versions available upon request
- Tape & Reel package

Mechanical Dimensions:



UNIT:mm

Part Number	Inductance ¹ ($\mu\text{H} \pm 20\%$)	DCR 20°C (Ω Max.)	Isat ² (Adc)
MGT - 547 - 100	10	0.15	1.10
MGT - 547 - 120	12	0.20	1.00
MGT - 547 - 150	15	0.23	0.90
MGT - 547 - 180	18	0.27	0.80
MGT - 547 - 220	22	0.34	0.74
MGT - 547 - 270	27	0.38	0.66
MGT - 547 - 330	33	0.45	0.59
MGT - 547 - 390	39	0.49	0.54
MGT - 547 - 470	47	0.69	0.50
MGT - 547 - 560	56	0.78	0.46
MGT - 547 - 680	68	1.07	0.42
MGT - 547 - 820	82	1.21	0.38
MGT - 547 - 101	100	1.39	0.34
MGT - 547 - 121	120	1.90	0.31
MGT - 547 - 151	150	2.18	0.28
MGT - 547 - 181	180	2.77	0.26
MGT - 547 - 221	220	3.12	0.23
MGT - 547 - 271	270	4.38	0.22
MGT - 547 - 331	330	4.94	0.19

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.
2. Inductance drop = 10% typ. at rated Isat.
3. $\Delta T = 45^\circ\text{C}$ rise typ.
4. Operating temperature range -40°C to $+85^\circ\text{C}$.
5. Electrical specifications at 25°C .

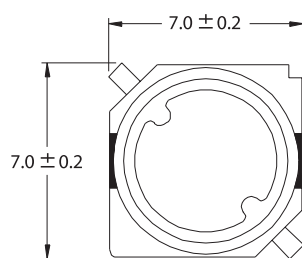
MGT-569 SERIES

SMD Power Inductors

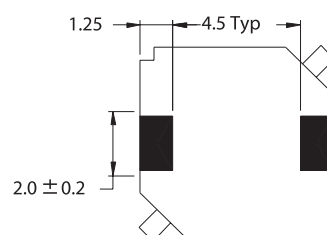


- Magnetically shielded
- Low profile—only 7.0 x 7.0 x 3.3 mm (high)
- Very low DCR
- Low cost for general purposes application
- Custom versions available upon request
- Tape & Reel package

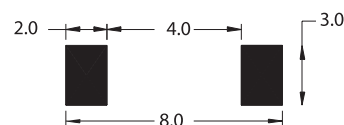
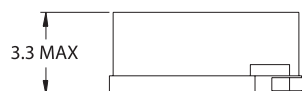
Mechanical Dimensions:



(TOP VIEW)



(BOTTOM VIEW)



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ ($\mu\text{H} \pm 20\%$)	DCR 20°C (m Ω Max.)	Isat ² (A dc)
MGT - 569 - 3R3	3.3	28	1.8
MGT - 569 - 4R7	4.7	43	1.6
MGT - 569 - 6R8	6.8	49	1.5
MGT - 569 - 100	10	63	1.3
MGT - 569 - 150	15	109	1.0
MGT - 569 - 220	22	132	0.86
MGT - 569 - 330	33	192	0.65
MGT - 569 - 470	47	290	0.57
MGT - 569 - 680	68	370	0.49
MGT - 569 - 101	100	540	0.35
MGT - 569 - 151	150	760	0.25

1. Inductance tested at 100kHz, 0.1Vrms, 0A dc.

2. Inductance drop = 10% typ. at rated Isat.

3. $\Delta T = 45^\circ\text{C}$ rise typ.

4. Operating temperature range -40°C to $+85^\circ\text{C}$.

5. Electrical specifications at 25°C .

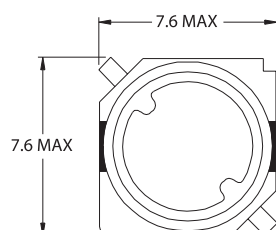
MGT-570_{SERIES}

SMD Power Inductors

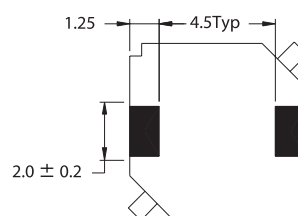
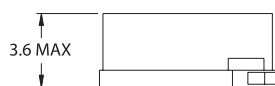


- Magnetically shielded
- High current—up to 3.12 Adc saturation current
- Very low DCR
- Low cost for general purposes application
- Custom versions available upon request
- Tape & Reel package

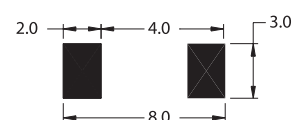
Mechanical Dimensions:



(TOP VIEW)



(BOTTOM VIEW)



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ (μH±20%)	DCR 20°C (Ω Max.)	Isat ² (Adc)
MGT - 570 - 1R0	1.0	0.019	3.12
MGT - 570 - 1R5	1.5	0.023	2.85
MGT - 570 - 2R2	2.2	0.028	2.66
MGT - 570 - 3R3	3.3	0.035	2.26
MGT - 570 - 4R7	4.7	0.043	1.96
MGT - 570 - 6R8	6.8	0.055	1.76
MGT - 570 - 100	10	0.080	1.34
MGT - 570 - 120	12	0.090	1.23
MGT - 570 - 150	15	0.120	1.09
MGT - 570 - 180	18	0.130	0.99
MGT - 570 - 220	22	0.150	0.90
MGT - 570 - 270	27	0.210	0.81
MGT - 570 - 330	33	0.250	0.72
MGT - 570 - 390	39	0.310	0.67
MGT - 570 - 470	47	0.350	0.60
MGT - 570 - 560	56	0.430	0.55
MGT - 570 - 680	68	0.520	0.50
MGT - 570 - 820	82	0.600	0.46
MGT - 570 - 101	100	0.790	0.41

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.
2. Inductance drop = 10% typ. at rated Isat.
3. ΔT = 45°C rise typ.
4. Operating temperature range -40°C to + 85°C.
5. Electrical specifications at 25°C.



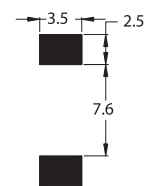
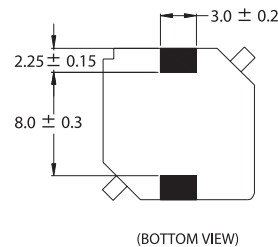
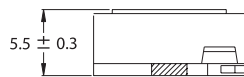
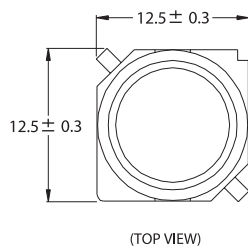
MGT-573 SERIES

SMD Power Inductors



- Magnetically shielded
- High current—up to 4.4 Adc saturation current
- Very low DCR
- Low cost for general purposes application
- Custom versions available upon request
- Tape & Reel package

Mechanical Dimensions:



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ ($\mu\text{H} \pm 20\%$)	DCR 20°C (Ω Max.)	Isat ² (Adc)
MGT - 573 - 100	10	0.022	4.4
MGT - 573 - 120	12	0.027	4.2
MGT - 573 - 150	15	0.034	4.0
MGT - 573 - 180	18	0.038	3.5
MGT - 573 - 220	22	0.044	3.2
MGT - 573 - 270	27	0.048	2.9
MGT - 573 - 330	33	0.059	2.5
MGT - 573 - 390	39	0.078	2.1
MGT - 573 - 470	47	0.084	2.0
MGT - 573 - 560	56	0.100	1.9
MGT - 573 - 680	68	0.113	1.8
MGT - 573 - 820	82	0.137	1.5
MGT - 573 - 101	100	0.152	1.5
MGT - 573 - 121	120	0.197	1.3
MGT - 573 - 151	150	0.239	1.3
MGT - 573 - 181	180	0.302	1.1
MGT - 573 - 221	220	0.341	1.1
MGT - 573 - 271	270	0.428	0.98
MGT - 573 - 331	330	0.510	0.86
MGT - 573 - 391	390	0.587	0.83
MGT - 573 - 471	470	0.765	0.70
MGT - 573 - 561	560	0.872	0.70
MGT - 573 - 681	680	1.162	0.62
MGT - 573 - 821	820	1.313	0.57
MGT - 573 - 102	1000	1.586	0.46

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.

2. Inductance drop = 10% typ. at rated Isat.

3. $\Delta T = 45^\circ\text{C}$ rise typ.

4. Operating temperature range -40°C to $+85^\circ\text{C}$.

5. Electrical specifications at 25°C .

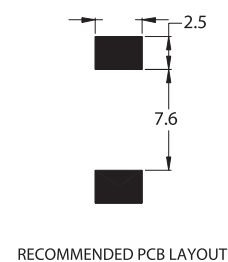
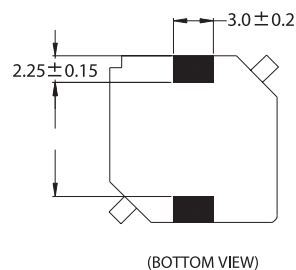
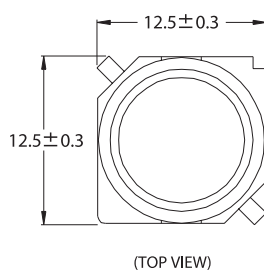
MGT-575_{SERIES}

SMD Power Inductors



- Magnetically shielded
- High current—up to 8.2 Adc saturation current
- Very low DCR
- Low cost for general purposes application
- Custom versions available upon request
- Tape & Reel package

Mechanical Dimensions:



UNIT:mm

Part Number	Inductance ¹ (μH)	DCR 20°C (mΩ Max.)	Isat ² (Adc)
MGT - 575 - 1R2	1.2	8.3	8.2
MGT - 575 - 2R7	2.7	11.3	7.0
MGT - 575 - 3R9	3.9	12.5	6.7
MGT - 575 - 5R6	5.6	15.6	6.3
MGT - 575 - 6R8	6.8	17.5	5.9
MGT - 575 - 100	10	22.1	5.4
MGT - 575 - 150	15	30.5	4.7
MGT - 575 - 220	22	38.0	4.0
MGT - 575 - 330	33	61.7	3.2
MGT - 575 - 470	47	72.6	2.7
MGT - 575 - 680	68	109	2.0
MGT - 575 - 101	100	160	1.9
MGT - 575 - 151	150	255	1.5
MGT - 575 - 221	220	375	1.3

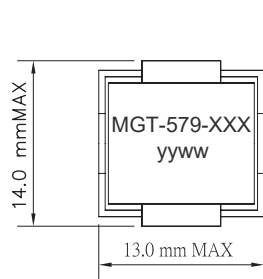
1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.
Tolerance 1.2 μH~6.8 μH ±30% 10.0 μH~220.0 μH ±20%
2. Inductance drop = 10% typ. at rated Isat.
3. ΔT = 45°C rise typ.
4. Operating temperature range -40°C to + 85°C.
5. Electrical specifications at 25°C.

MGT-579 SERIES

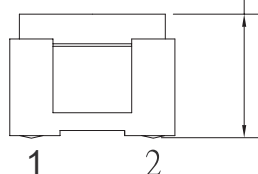
High Current Power Inductors



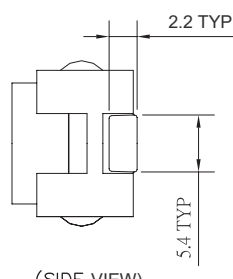
- Designed for high current, low voltage applications
- Low DCR, high efficiency
- Foil construction for higher frequency circuit designs



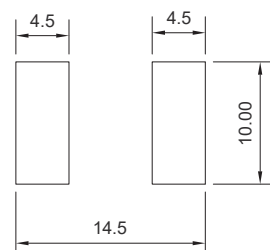
(TOP VIEW)



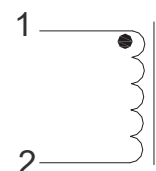
(FRONT VIEW)



(SIDE VIEW)



RECOMMENDED PCB
LAYOUT COMPONENT SIDE



unit: mm

Part Number	Inductance ¹ (μ H)	Test Frequency & Volts	DCR 20°C (m Ω max.)	Isat ² (ADc)
MGT – 579 – R22	0.218	300 KHz , 0.25Vrms	0.45	40.5
MGT – 579 – R30	0.291	300 KHz , 0.25Vrms	0.45	31.8
MGT – 579 – R57	0.572	300 KHz , 0.25Vrms	0.95	33.4
MGT – 579 – R87	0.866	300 KHz , 0.25Vrms	1.45	31.0
MGT – 579 – 1R0	1.12	300 KHz , 0.25Vrms	1.45	25.4
MGT – 579 – 1R7	1.66	300 KHz , 0.25Vrms	2.0	22.2
MGT – 579 – 2R3	2.29	300 KHz , 0.25Vrms	2.0	16.7
MGT – 579 – 3R6	3.59	300 KHz , 0.25Vrms	3.2	13.4
MGT – 579 – 5R1	5.15	300 KHz , 0.25Vrms	5.4	11.2
MGT – 579 – 7R8	7.85	300 KHz , 0.25Vrms	5.4	6.7
MGT – 579 – 100	10.5	300 KHz , 0.25Vrms	5.4	5.3

1. Inductance tolerance $\pm 15\%$

2. Inductance drop = 25 % typ. at rated Isat.

3. $\Delta T = 40^\circ\text{C}$ rise typ.

4. Operating temperature range -40°C to $+85^\circ\text{C}$.

5. Electrical specifications at 25°C .

MGT-586

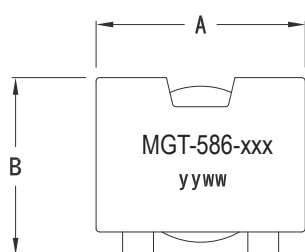
SERIES

SMD Power Inductors

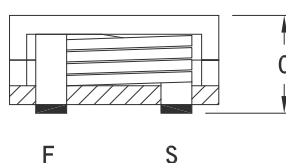


- High inductance. High DC current capability.
- Surface mount design.
- Packaging standard, per 13" Reel.
- RoHS compliant component.

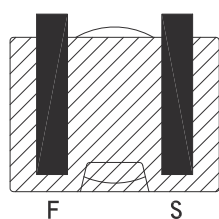
Mechanical Dimensions:



(TOP VIEW)

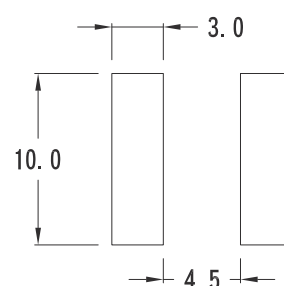


(FRONT VIEW)



(BOTTOM VIEW)

RECOMMENDED PCB LAYOUT



Electrical Specifications at 25°C

Part Number	Inductance ¹ (μH)	DCR (mΩ) max.	Isat (Adc)	Dimensions (mm)		
				A	B	C
MGT-586-R95	0.95	2.3	25.0	12.5 MAX	11.0 MAX	6.5 MAX
MGT-586-1R4	1.40	4.1	22.0	12.5 MAX	11.0 MAX	6.2 MAX
MGT-586-2R4	2.40	4.8	16.5	12.5 MAX	11.0 MAX	6.2 MAX
MGT-586-3R9	3.90	7.2	12.0	12.5 MAX	11.0 MAX	6.2 MAX

1. Inductance tested at 10 KHz, 0.1 Vrms

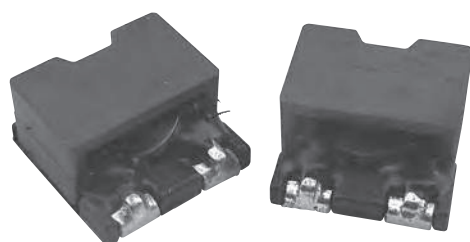
2. Inductance tolerance ± 15 %

3. Dc current that will cause inductance to drop max 30% from nominal value.

4. Operating temperature range -25°C to + 100°C.

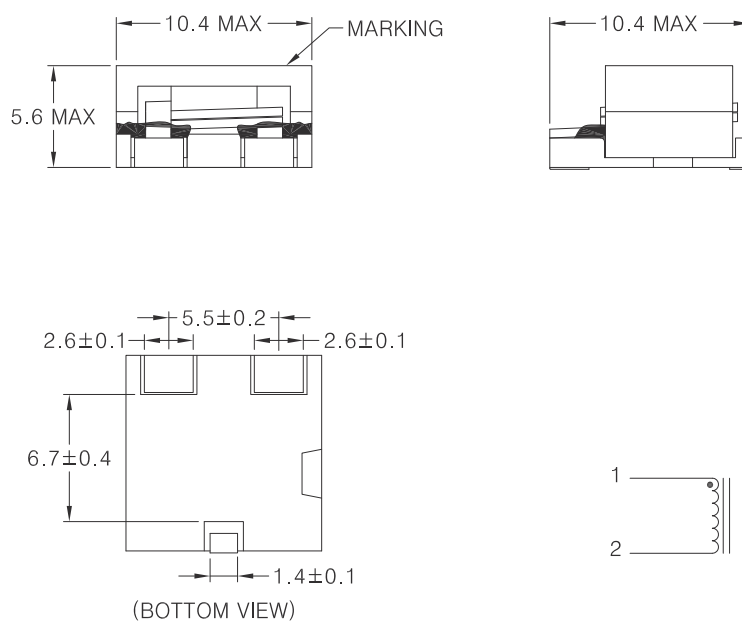
MGT-587 SERIES

SMD Power Inductors



- High inductance. High DC current capability.
- Surface mount design.
- Packaging standard, per 13" Reel .
- RoHS compliant component.

Mechanical Dimensions:



UNIT : mm

Electrical Specifications at 25°C

Part Number	Inductance (±20% uH)	Dc resistance (typ Ω)	Isat ² (A)
MGT – 587 – R30	0.30	1.7	19.0
MGT – 587 – R80	0.80	2.4	16.0
MGT – 587 – 1R4	1.40	4.1	12.0
MGT – 587 – 2R2	2.20	5.3	9.6
MGT – 587 – 3R2	3.20	7.5	7.8
MGT – 587 – 4R3	4.30	10.5	6.8
MGT – 587 – 5R7	5.70	12.4	5.8
MGT – 587 – 7R2	7.20	18.0	5.3
MGT – 587 – 8R8	8.80	23.8	4.8

1. Open circuit inductance test parameters : 100KHz, 0.1Vrms.
Tolerance 0.5uH Max ±30% ,0.5uH Min ±20%.
2. Isat : DC current at which the inductance drops 30% (typ) from its value without current.
3. Operating temperature range - 40°C to + 85°C.
4. Storage temperature range : - 40°C to + 125°C.

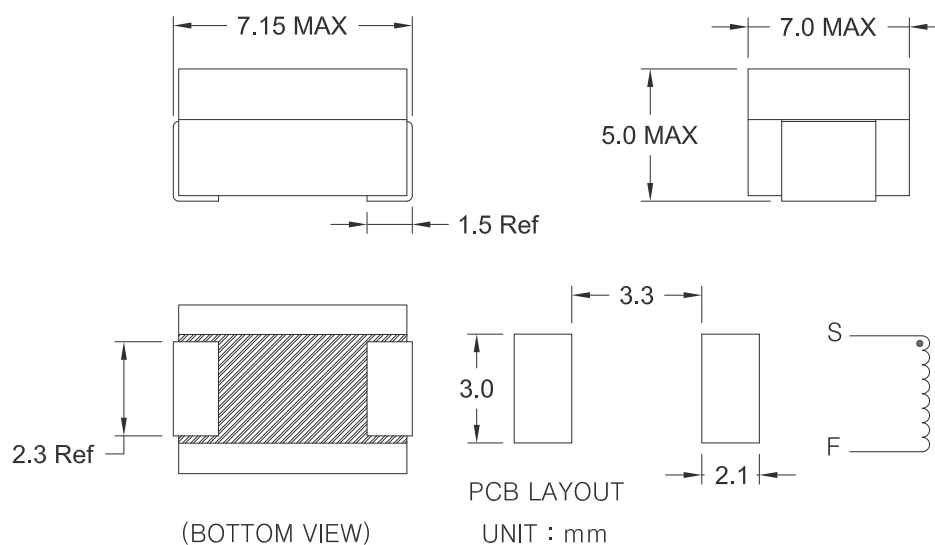
MGT-590 SERIES

High Current Inductor



- Lower losses at high frequency ranges up to 2 MHz
- Low stray field
- Current handling capability up to 65 Amps
- Operating temperature: - 40°C to + 125°C
- Recommended solder profile: Reflow

Mechanical Dimensions:



Electrical Specifications at 25°C

Part Number	Inductance ¹ (μH)	Inductance ² (μH)	Current ² (A)	Current ³ (A)	DCR (mΩ) Typ	Self Resonant Frequency (MHz) Typ
MGT-590-R07	0.072	0.071	30.0	65.0	0.25	50
MGT-590-R11	0.105	0.104	30.0	50.0		
MGT-590-R12	0.120	0.119	30.0	37.0		
MGT-590-R15	0.150	0.130	30.0	32.0		
MGT-590-R18	0.180	0.160	20.0	25.0		

1. Inductance tested at 100 KHz, 0.1 Vrms

2. Irms for 40°C an approximate temperature rise

3. Isat for 20% Inductance drop at rated 25°C

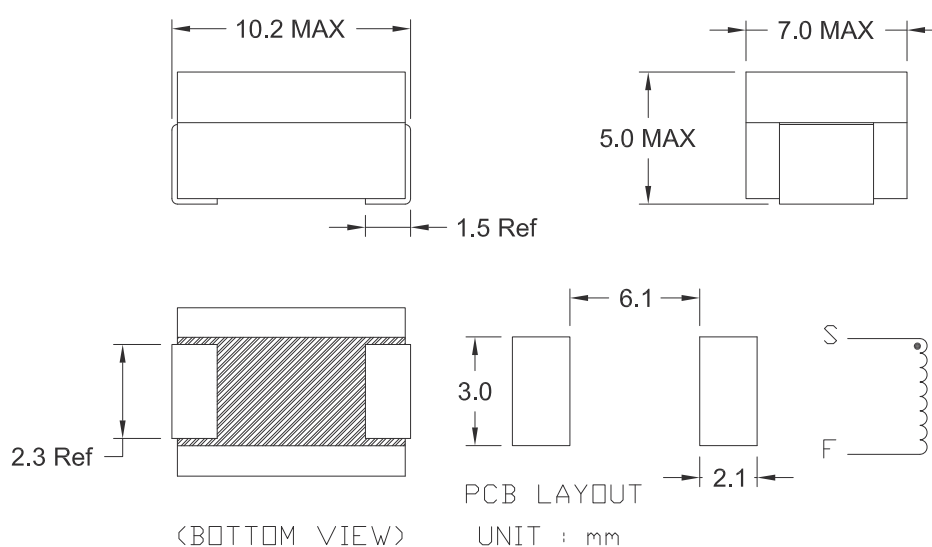
MGT-592 SERIES

High Current Inductor



- Lower losses at high frequency ranges up to 2 MHz
- Low stray field
- Current handling capability up to 80 Amps
- Operating temperature: - 40°C to + 125°C
- Recommended solder profile: Reflow

Mechanical Dimensions:



Electrical Specifications at 25°C

Part Number	Inductance ¹ (μH)	Inductance ² (μH)	Current ² (A)	Current ³ (A)	DCR (mΩ) Typ	Self Resonant Frequency (MHz) Typ
MGT-592-R09	0.085	0.084	31.0	82.0	0.325	50
MGT-592-R10	0.100	0.099	31.0	70.0		
MGT-592-R12	0.120	0.118	31.0	58.0		
MGT-592-R16	0.155	0.150	31.0	47.0		
MGT-592-R22	0.220	0.185	31.0	33.0		

1. Inductance tested at 100 KHz, 0.1 Vrms

2. Irms for 40°C an approximate temperature rise

3. Isat for 20% Inductance drop at rated 25°C

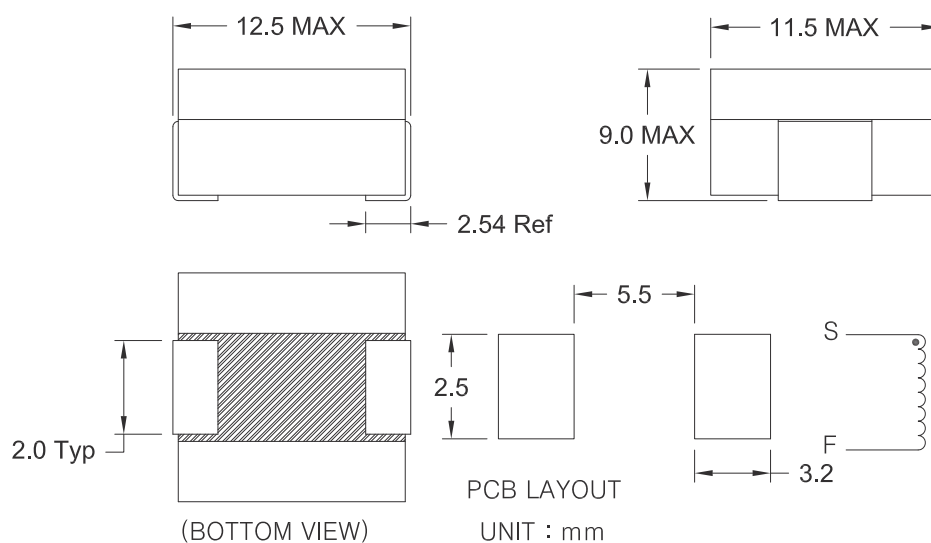
MGT-595 SERIES

High Current Inductor



- Lower losses at high frequency ranges up to 2 MHz
- Low stray field
- Current handling capability up to 110 Amps
- Operating temperature: - 40°C to + 125°C
- Recommended solder profile: Reflow

Mechanical Dimensions:



Electrical Specifications at 25°C

Part Number	Inductance ¹ (μH)	Inductance ² (μH)	Current ² (A)	Current ³ (A)	DCR (mΩ) Typ	Self Resonant Frequency (MHz) Typ
MGT-595-R11	0.110	0.108	35.0	120.0	0.18	70
MGT-595-R21	0.205	0.185	35.0	80.0		
MGT-595-R27	0.270	0.250	35.0	64.0		
MGT-595-R31	0.311	0.290	35.0	52.0		
MGT-595-R46	0.463	0.420	35.0	37.0		

1. Inductance tested at 100 KHz, 0.1 Vrms

2. Irms for 40°C an approximate temperature rise

3. Isat for 20% Inductance drop at rated 25°C

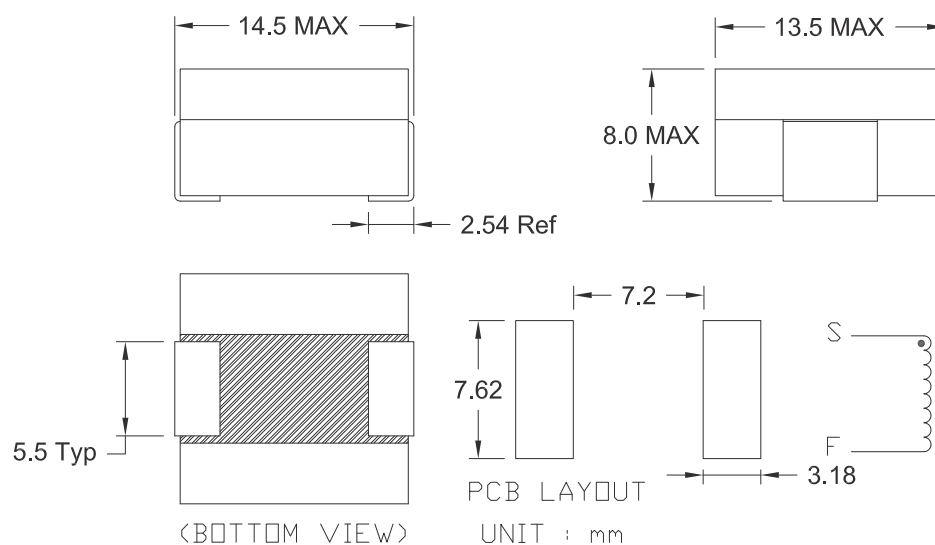
MGT-597 SERIES

High Current Inductor



- Lower losses at high frequency ranges up to 2 MHz
- Low stray field
- Current handling capability up to 120 Amps
- Operating temperature: - 40°C to + 125°C
- Recommended solder profile: Reflow

Mechanical Dimensions:



Electrical Specifications at 25°C

Part Number	Inductance ¹ (μH)	Inductance ² (μH)	Current ² (A)	Current ³ (A)	DCR (mΩ) Typ	Self Resonant Frequency (MHz) Typ
MGT-597-R11	0.110	0.108	45.0	120.0	0.06	75
MGT-597-R21	0.210	0.205	45.0	80.0		
MGT-597-R26	0.260	0.255	45.0	64.0		
MGT-597-R32	0.320	0.300	35.0	42.0		
MGT-597-R44	0.440	0.410	25.0	30.0		

1. Inductance tested at 100 KHz, 0.1 Vrms

2. Irms for 40°C an approximate temperature rise

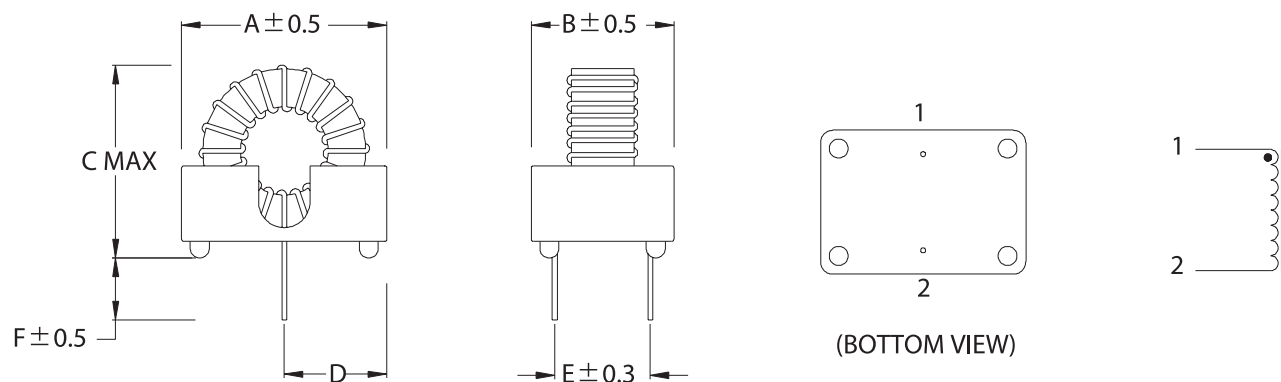
3. Isat for 20% Inductance drop at rated 25°C

MGT-50000 SERIES

General Purpose Inductors

- Rigid mount termination and stand-off.
- Base material meets flammability requirements of UL94V-0.
- PC Board-automatic insertion applicable.
- SMPS averaging filter.
- Characterized for general purpose use and ripple filters.
- Single layer designs.
- Can be used as differential mode inductors in EMI filters.
- Bare coil low cost version available.

Mechanical Dimensions:



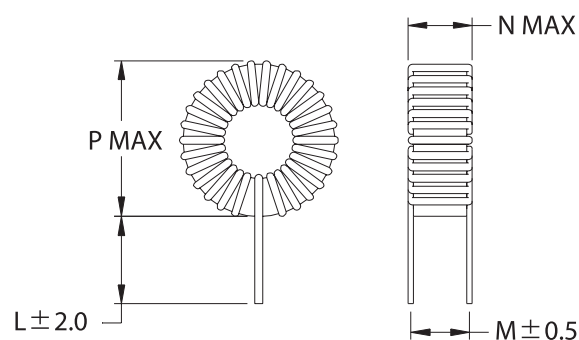
UNIT:mm

Mounting package

Package Style	A	B	C	D	E	F
T - KM44	14.73	8.64	16.51	7.37	5.60	3.3
T - KM50	16.51	11.43	17.78	8.26	7.62	3.3
T - KM68	21.08	11.43	24.13	10.54	7.62	3.3
T - KM80	24.64	15.30	27.94	12.07	11.44	3.3
T - KM106	33.02	17.78	35.56	15.88	12.70	3.3

Bare Coil

Coil Size	P	N	L	M
A	13.97	6.35	9.53	4.57
B	17.78	9.65	9.53	7.11
C	21.59	10.41	9.53	7.11
D	26.67	13.97	9.53	10.16
E	35.56	17.78	9.53	12.7
F	41.91	17.78	9.53	12.7
G	21.59	8.38	22.23	8.38
H	16.26	7.11	22.23	7.11



UNIT:mm



MGT-50000 SERIES

General Purpose Inductors



Electrical Specifications at 25°C

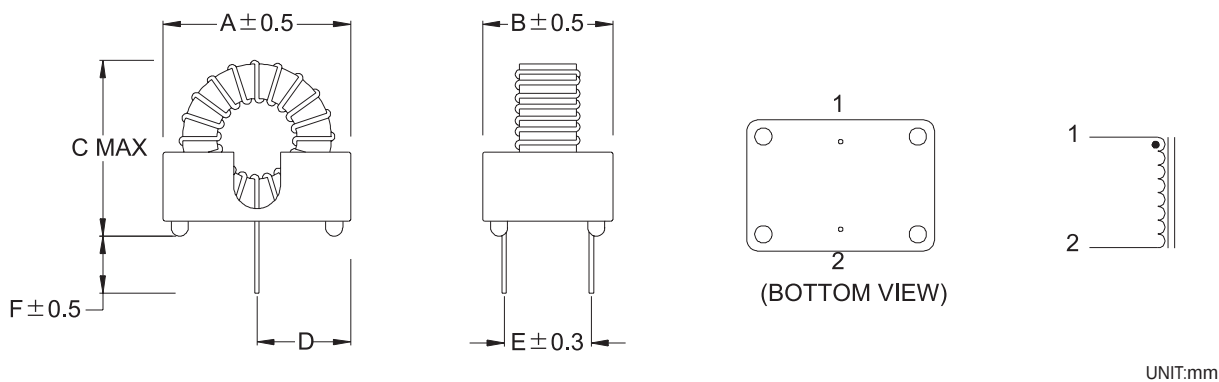
Reference Operating Values					Design Control Values					
Part Number	Inductance Typical (μH)	IDC (Amps)	ETop (V-μs)	Min. Energy Storage (μJ)	Inductance No DC (μH ± 20%)	20KHz Test mV No DC	DCR 20°C (mΩ Max.)	Coil Size Code	Mount Package	Lead Dia. (mm)
MGT - 50001	20	2.0	52	40	32.8	33	60	H	—	0.50
MGT - 50002	25	2.6	30	85	20.7	22	43	A	T-KM44	0.50
MGT - 50003	50	2.6	50	169	45.7	45	71	B	T-KM50	0.50
MGT - 50004	100	2.6	90	338	94.1	90	100	C	T-KM68	0.50
MGT - 50005	35	2.6	55	118	28.4	36	37	B	T-KM50	0.635
MGT - 50006	70	3.0	85	315	61.0	73	52	C	T-KM68	0.635
MGT - 50007	145	3.0	140	653	141.8	140	87	D	T-KM80	0.635
MGT - 50008	285	3.0	300	1283	264.1	340	140	E	T-KM106	0.635
MGT - 50009	450	3.0	425	2025	436.3	500	200	F	—	0.635
MGT - 50010	100	3.6	130	648	90.7	110	45	D	T-KM80	0.80
MGT - 50011	165	4.0	240	1320	152.0	260	70	E	T-KM106	0.80
MGT - 50012	270	4.0	350	2160	263.9	400	100	F	—	0.80
MGT - 50013	40	4.0	70	320	37.9	57	27	C	T-KM68	0.80
MGT - 50014	22	5.0	44	275	20.3	37	20	G	—	0.80
MGT - 50015	100	5.0	200	1250	90.7	180	34	E	T-KM106	1.00
MGT - 50016	170	5.0	300	2125	159.7	310	50	F	—	1.00
MGT - 50017	55	5.0	100	688	54.9	88	23	D	T-KM80	1.00
MGT - 50018	95	7.0	225	2328	96.0	200	25	F	—	1.30
MGT - 50019	55	7.0	150	1348	49.1	100	17	E	T-KM106	1.30
MGT - 50020	55	10.0	175	2750	55.9	120	13	F	—	1.60

MGT-51000

SERIES

Inductors

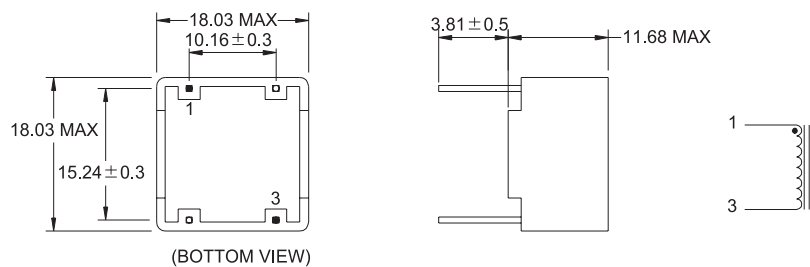
Mechanical Dimensions:



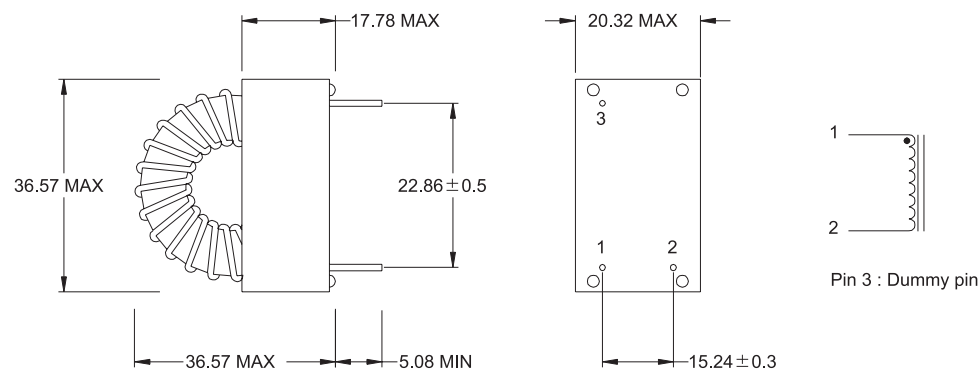
Mounting package

Package Style	A	B	C	D	E	F
T - KM50	16.51	11.43	17.78	8.26	7.62	3.3
T - KM68	21.08	11.43	24.13	10.54	7.62	3.3
T - KM80	24.64	15.30	27.94	12.07	11.44	3.3
T - KM106	33.02	17.78	35.56	15.88	12.70	3.3

Low Profile



High profile



UNIT:mm

Go Top

MGT-51000 SERIES

Inductors

- Base material meets flammability requirements of UL 94V-0.



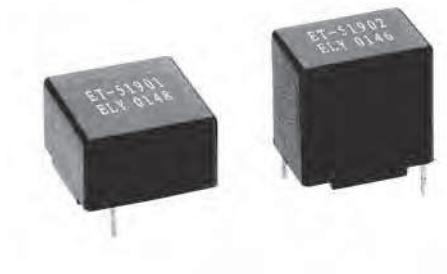
Electrical Specifications at 25°C

Part Number	Reference Operating Values			Design Control Values			
	Inductance Typical (μ H)	IDC (Amps)	E _{Top} (V- μ s)	Inductance No DC (μ H $\pm$ 20%)	DCR 20°C (Ω Max.)	Package Style	Lead Dia. (mm)
MGT - 51001	47	3.0	90	38	0.05	T-KM50	0.635
MGT - 51002	150	2.0	90	130	0.10	T-KM80	0.635
MGT - 51003	220	1.4	90	230	0.38	Low profile	0.63SQ
MGT - 51004	220	1.4	90	176	0.14	T-KM68	0.50
MGT - 51005	330	0.9	90	302	0.74	Low profile	0.63SQ
MGT - 51006	330	0.9	90	267	0.18	T-KM68	0.50
MGT - 51007	470	0.64	90	426	0.16	T-KM80	0.635
MGT - 51008	680	0.85	90	657	1.25	Low profile	0.63SQ
MGT - 51009	150	3.0	200	136	0.10	T-KM80	0.635
MGT - 51010	220	3.0	200	167	0.07	T-KM106	0.80
MGT - 51011	330	3.0	200	292	0.15	T-KM106	0.635
MGT - 51012	470	2.0	200	369	0.17	T-KM106	0.635
MGT - 51013	680	1.3	200	562	0.20	T-KM106	0.635
MGT - 51014	1000	0.95	200	762	0.24	T-KM106	0.635
MGT - 51015	1500	0.62	200	1150	1.00	High profile	0.80
MGT - 51016	2200	0.42	200	1730	1.80	High profile	0.80
MGT - 51017	8	3.0	90	55	0.02	T-KM80	1.00
MGT - 51018	100	3.0	90	91	0.04	T-KM80	0.80

INDUCTANCE TEST AT 20KHz,10mV.

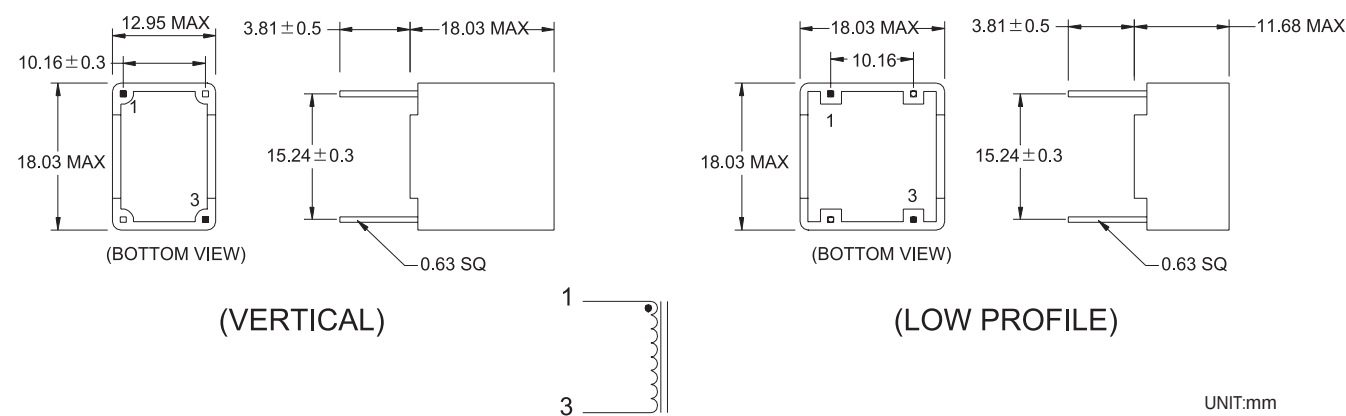
MGT-51900 SERIES

Standard Low Power Inductors



- Designed for general purpose use, switching mode power converters and ripple filters
- High inductance stability with variable volt - seconds & load currents
- Compact packages with vertical and low profile options available

Mechanical Dimensions:



Electrical Specifications at 25°C

Reference Operating Values					Design Control Values			
Low Profile Part No.	Vertical Part No.	Inductance Typical (μH)	IDC (Amps)	Max. ETop (V-μs)	Inductance No DC (μH ± 20%)	20KHz Test Volts No.DC	DCR 20°C (Ω Max.)	Min.Energy Storage (μJ)
MGT - 51901	MGT - 51902	150	1.7	80	145	0.11	0.42	215
MGT - 51903	MGT - 51904	220	1.5	90	226	0.14	0.52	240
MGT - 51905	MGT - 51906	330	1.0	100	316	0.17	0.78	165
MGT - 51907	MGT - 51908	470	.90	120	480	0.21	1.26	190
MGT - 51909	MGT - 51910	680	.85	175	690	0.25	1.50	245
MGT - 51911	MGT - 51912	820	.75	175	780	0.27	2.40	230
MGT - 51913	MGT - 51914	1000	.50	175	975	0.30	2.60	125

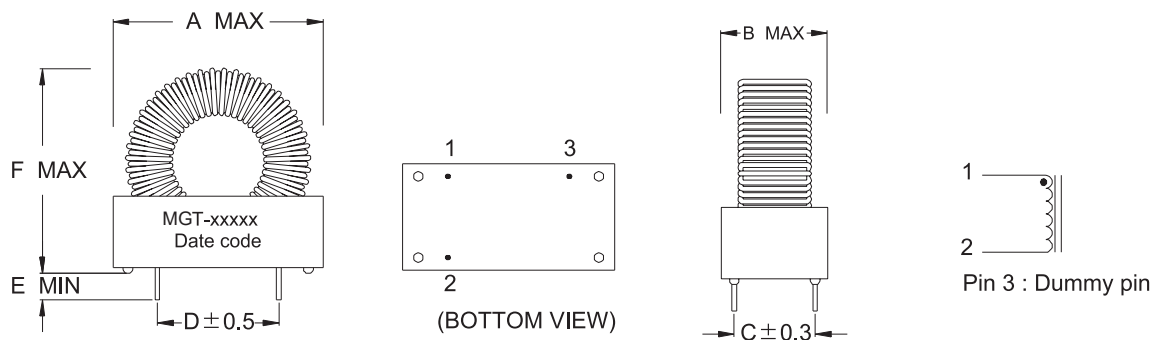
MGT-52200_{SERIES}

High Current Toroidal Inductors



- 130°C maximum operation temperature
- Low profile in horizontal package available on request
- Bare coil available on request

Mechanical Dimensions:



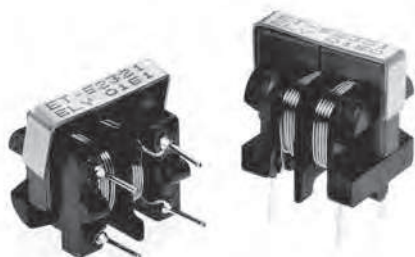
UNIT:mm

Electrical Specifications at 25°C

Reference Operating Values					Design Control Values					
Part Number	Inductance Typical (μH)	IDC (Amps)	ETop (V-μs)		Inductance No DC (μH ± 20%)	50kHz Test Volts No DC	DCR 20°C (mΩ Max.)	Size Code	Lead Dia. mm	Min. Energy Storage (μJ)
			20KHz	40KHz						
MGT - 52201	17.0	17.0	190	130	40.0	0.14	6.5	3	2.0	2460
MGT - 52202	32.0	16.0	290	200	70.7	0.27	9.2	4	2.0	4100
MGT - 52203	60.0	16.0	390	270	120.0	0.47	12	5	2.0	7700
MGT - 52204	14.0	10.0	135	95	28.5	0.073	9.0	1	1.45	700
MGT - 52205	23.0	11.0	170	120	43.5	0.13	12	2	1.45	1400
MGT - 52206	43.0	10.0	280	195	85.5	0.21	18	3	1.45	2150
MGT - 52207	90.0	10.0	430	300	158.0	0.42	28	4	1.45	4500
MGT - 52208	144.0	10.0	570	400	262.0	0.70	32	5	1.45	7200
MGT - 52209	32.0	6.6	200	140	60.5	0.11	25	1	1.0	700
MGT - 52210	52.0	7.0	230	160	92.0	0.19	32	2	1.0	1275
MGT - 52211	98.0	6.0	400	280	188.0	0.31	48	3	1.0	1765
MGT - 52212	175.0	6.0	620	425	315.0	0.56	68	4	1.0	3150
MGT - 52213	335.0	6.0	840	580	571.0	1.0	95	5	1.0	6030
MGT - 52214	280.0	3.5	500	350	325.0	0.06	200	6	1.30	1715
MGT - 52215	470.0	3.5	600	420	1000.0	1.00	130	3	0.90	2630
MGT - 52216	400.0	3.6	600	420	688.0	0.64	130	3	0.90	2700

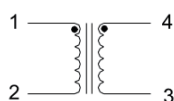
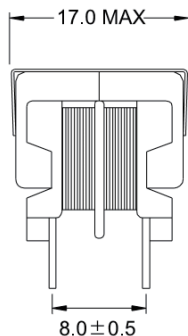
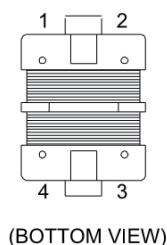
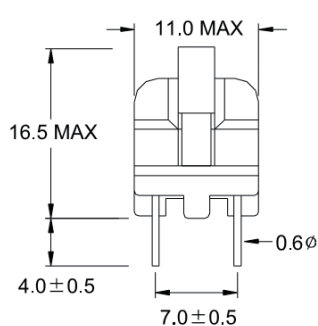
MGT-52300 SERIES

AC Line Filters EMI / RFI Common Mode Choke

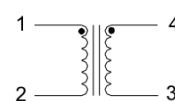
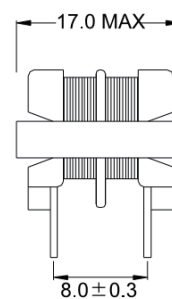
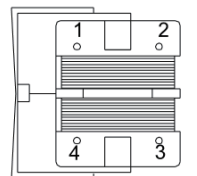
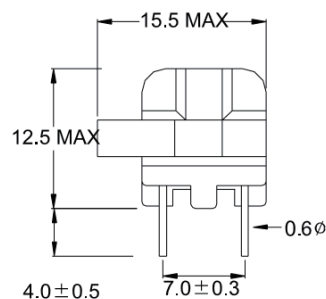


- Prevents noise emission, such as electromagnetic interference (EMI) & radio frequency interference (RFI)
- Protects AC side from the effects of switching regulators
- Wide range of available inductances and current ratings

VERTICAL



HORIZONTAL



UNIT:mm

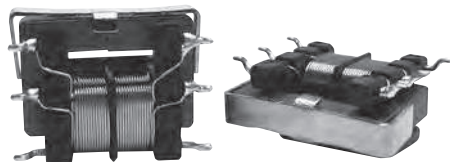
Vertical Part No.	Horizontal Part No.	Inductance (mH MIN)	DCR 20°C (Ω Max)	Rated current Iac (A)
MGT-52301	MGT-52321	10	8.0	0.1
MGT-52302	MGT-52322	8	6.0	0.2
MGT-52303	MGT-52323	5	3.0	0.3
MGT-52304	MGT-52324	2	1.0	0.5
MGT-52305	MGT-52325	1	0.6	0.7
MGT-52306	MGT-52326	0.5	0.3	1.0

1. Inductance tested at 10kHz, 0.1Vrms.
2. Rated voltage : 250VAC/VDC
3. Withstanding voltage: 2000VAC (one minute,between lines).
4. Insulation resistance: at 500VDC, more than 100M Ω (between lines).
5. Electrical specifications at 25°C.



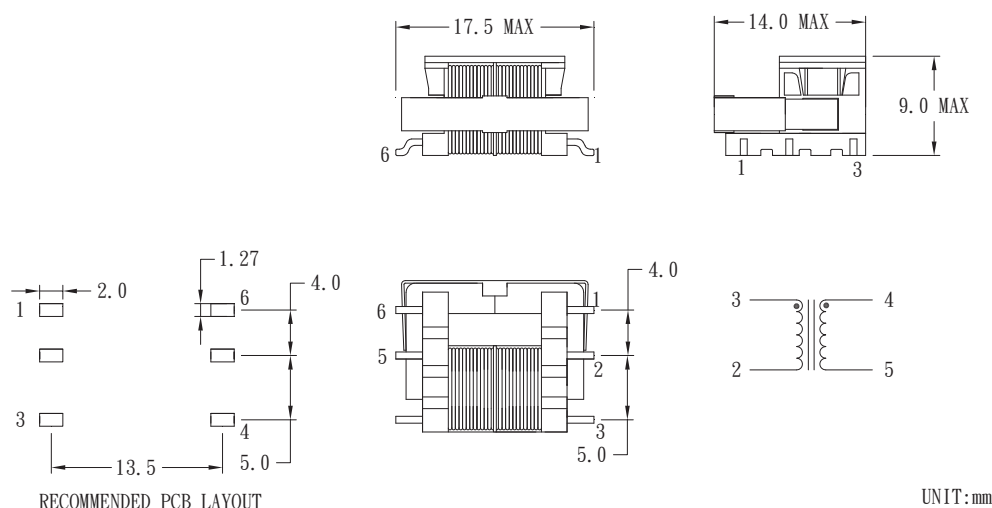
MGT-52300A SERIES

AC Line Filters EMI/RFI Common Mode Choke(SMD Type)



- Prevents noise emission, such as electromagnetic interference (EMI) & radio frequency interference(RFI)
- Protects AC side from the effects of switching regulators
- Wide range of available inductances and current ratings

Mechanical Dimensions:



Electrical Specifications at 25°C — Operating Temperature -25°C to 125°C

Part Number	Inductance (mH MIN)	DCR 25°C (ΩMax)	Rated current Iac(A)
MGT-52301A	10	8.0	0.1
MGT-52302A	8	6.0	0.2
MGT-52303A	5	3.0	0.3
MGT-52304A	2	1.0	0.5
MGT-52305A	1	0.6	0.7
MGT-52306A	0.5	0.3	1.0

1. Inductance tested at 10KHz / 0.1Vrms.

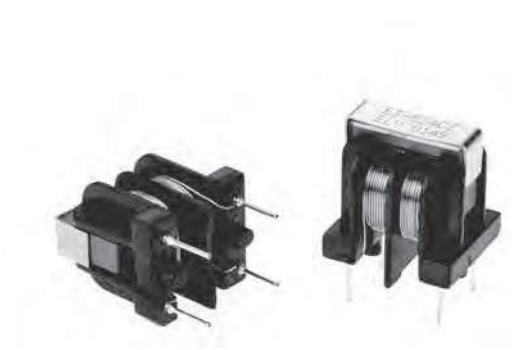
2. Rated Voltage : 250VAC/VDC

3. Withstanding Voltage : 1500VAC

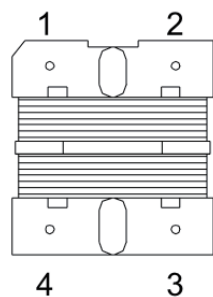
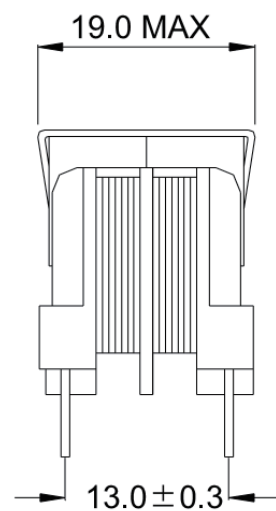
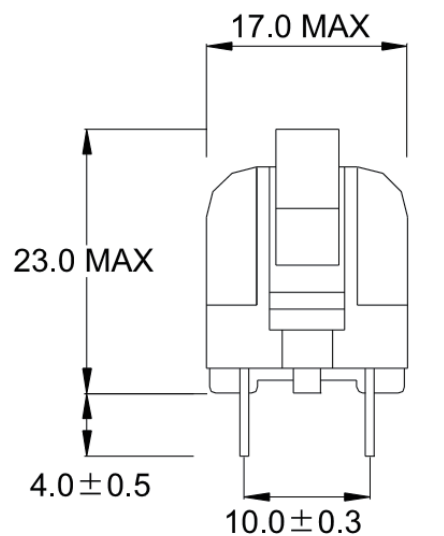
4. Insulation resistance : at 500VDC, more than 100MΩ

MGT-52400 SERIES

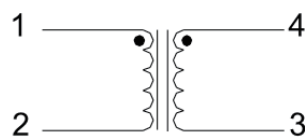
AC Line Filters EMI / RFI
Common Mode Choke



- Prevents noise emission, such as electromagnetic interference (EMI) & radio frequency interference(RFI)
- Protects AC side from the effects of switching regulators
- Wide range of available inductances and current ratings



(BOTTOM VIEW)



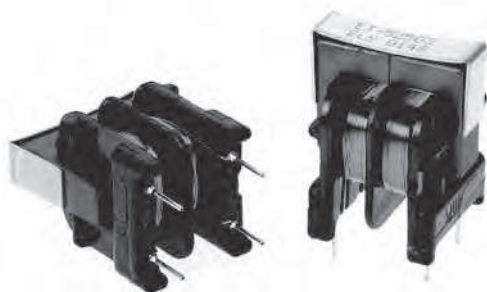
UNIT:mm

Part Number	Inductance (mH MIN)	DCR 20°C (ΩMax)	Rated current Iac (A)
MGT-52401	10	3.0	0.3
MGT-52402	5	1.5	0.5
MGT-52403	4	1.0	0.7
MGT-52404	3	0.5	1.0
MGT-52405	2	0.5	1.0
MGT-52406	1	0.3	1.3
MGT-52407	0.6	0.15	2.0

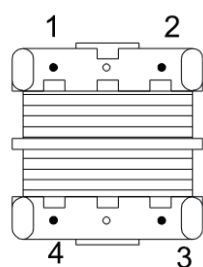
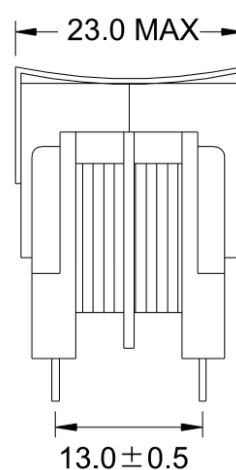
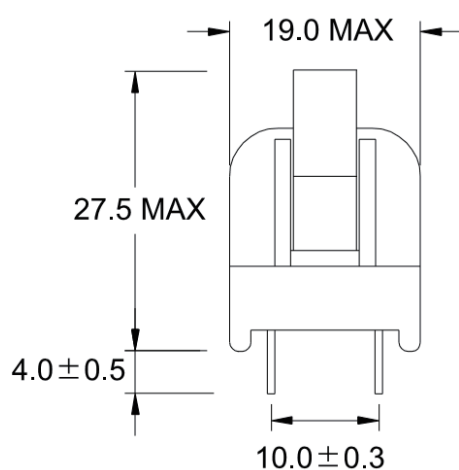
1. Inductance tested at 10kHz, 0.1Vrms.
2. Rated voltage : 250VAC/VDC
3. Withstanding voltage: 2000VAC (one minute, between lines).
4. Insulation resistance: at 500VDC, more than 100M Ω (between lines).
5. Electrical specifications at 25°C.

MGT-52500 SERIES

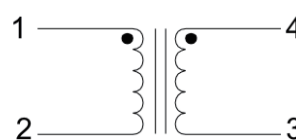
AC Line Filters EMI / RFI Common Mode Choke



- Prevents noise emission, such as electromagnetic interference (EMI) & radio frequency interference(RFI)
- Protects AC side from the effects of switching regulators
- Wide range of available inductances and current ratings



(BOTTOM VIEW)



UNIT:mm

Part Number	Inductance (mH MIN)	DCR 25°C (ΩMax)	Rated current Iac(A)
MGT-52501	30	2.8	0.4
MGT-52502	20	1.6	0.5
MGT-52503	10	1.2	0.6
MGT-52504	8	0.8	0.8
MGT-52505	6	0.5	1.0
MGT-52506	4	0.4	1.0
MGT-52507	3.5	0.3	1.2
MGT-52508	1.5	0.15	1.5

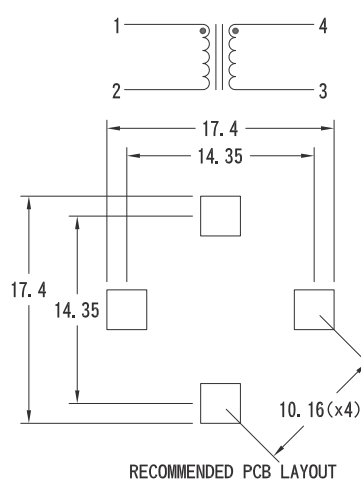
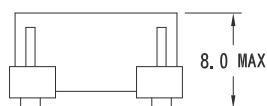
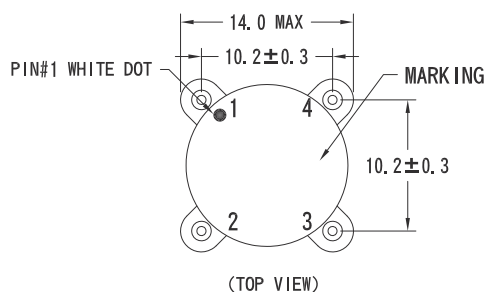
1. Inductance tested at 10kHz, 0.1Vrms.
2. Rated voltage : 250VAC/VDC
3. With standing voltage: 2000VAC (one minute, between lines).
4. Insulation resistance: at 500VDC, more than 100MΩ (between lines).
5. Electrical specifications at 25°C.

MGT-52600 SERIES

Surface Mount Common Mode Choke



- Mechanical configuration A flat top surface mount case with excellent coplanarity of terminals.
- Operating temperature Range 0°C to +105°C.
- Withstanding voltage: 500VAC.
- Rated RMS current based upon 40°C temperature rise from 25°C ambient.
- Maximum power dissipation at 25°C 0.605 watts.



UNIT : mm

Electrical Specifications at 25°C

Part Number	L1 or L2 Inductance +35% / -30%(uH)	Dc resistance max.(Ω)	Rated rms current (AMPS) max.	Leakage inductance typical (uH)
MGT- 52601	100	0.006	7.00	0.7
MGT- 52602	150	0.010	5.50	1.0
MGT- 52603	220	0.012	5.00	1.4
MGT- 52604	330	0.017	4.00	1.8
MGT- 52605	500	0.024	3.30	2.2
MGT- 52606	750	0.035	2.70	3.0
MGT- 52607	1000	0.049	2.20	4.0
MGT- 52608	1200	0.068	1.70	5.0
MGT- 52609	1800	0.106	1.40	5.5
MGT- 52610	2200	0.150	1.10	7.0
MGT- 52611	3300	0.210	0.85	9.5
MGT- 52612	5000	0.320	0.70	14.0
MGT- 52613	7500	0.640	0.44	22.0
MGT- 52614	10000	0.900	0.33	29.0

1. Inductance and DCR in table is for either L1 to L2.
2. Leakage inductance tested at L1 with L2 shorted or at L2 with L1 shorted.
3. Inductance tested@10kHz.

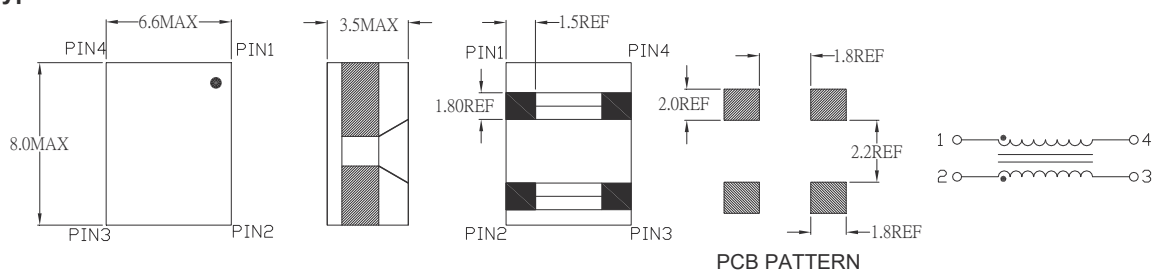
MGT-52700 SERIES

Common Mode Choke for DC Line

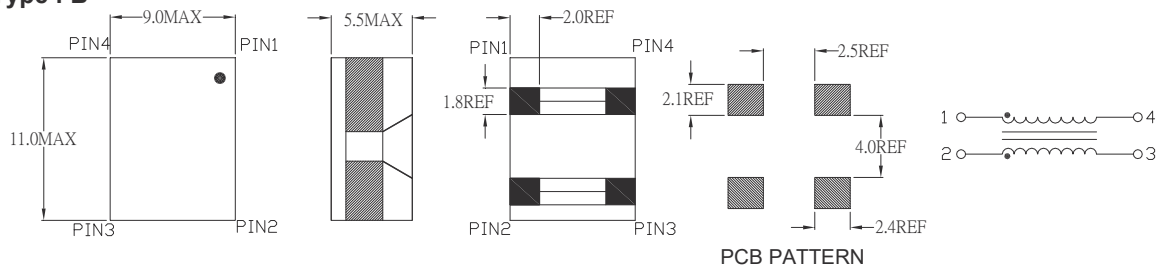


- Ideal for dc line and countermeasure against radiation noise.
- Low height and small size SMD.
- Excellent frequency characteristics.

Type : A



Type : B



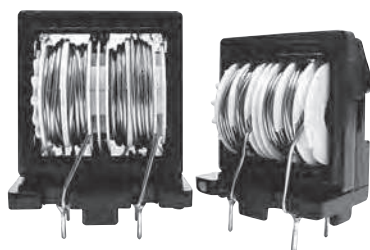
Unit : mm

Part Number	Rated current (ADC) MAX	Impedance (at 100MHZ) (Ω) MIN	DCR (Ω max.)	Type
MGT-52701	4.0	250	0.020	A
MGT-52702	7.0	550	0.016	B

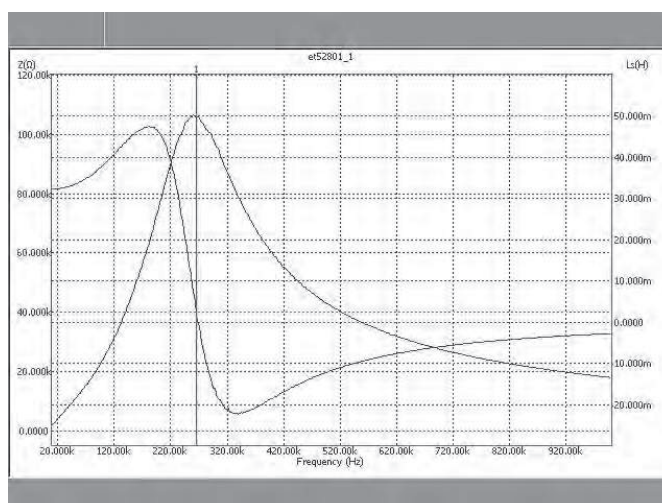
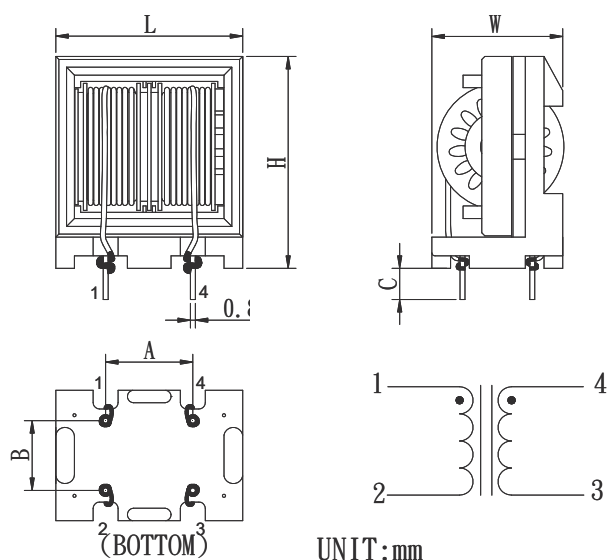
1. Temperature rise Currnet : 40°C max.
2. Operating temperature: - 25°C ~ + 120°C .
(Including self-heat generation by turning the electricity)

MGT-52800 SERIES

Noise Countermeasures Common Mode Choke



- Use new material for higher impedance under high frequency range noise suppression.
- This series employs two outer magnetic path limbs design with windings on the center magnetic path limb of double-square shaped closed magnetic circuit ferrite core to reduce leakage flux.
- Wide range of available inductances and current ratings.



Part Number	Inductance (mH MIN)	DCR@ 20°C (mΩ max.)	Rated current Iac(A)	Dimensions (mm)					
				L (MAX)	W (MAX)	H (MAX)	A	B	C
MGT-52801	25	650	1.0	30.5	22.5	35.5	13.0±0.5	10.0±0.5	3.0 MIN
MGT-52802	16	350	1.5	30.5	22.5	35.5	13.0±0.5	10.0±0.5	3.0 MIN
MGT-52803	8	220	2.0	30.5	22.5	35.5	13.0±0.5	10.0±0.5	3.0 MIN
MGT-52804	5.6	160	2.5	30.5	22.5	35.5	13.0±0.5	10.0±0.5	3.0 MIN
MGT-52805	15	590	1	25.5	18.5	30.5	13.0±0.5	10.0±0.5	3.0 MIN
MGT-52806	7	270	1.5	25.5	18.5	30.5	13.0±0.5	10.0±0.5	3.0 MIN
MGT-52807	3	130	2.0	25.5	18.5	30.5	13.0±0.5	10.0±0.5	3.0 MIN
MGF-52808	2	95	2.5	25.5	18.5	30.5	13.0±0.5	10.0±0.5	3.0 MIN

1. Inductance tested at 10 KHz, 0.5mA.
2. Rated voltage : 250VAC/VDC.
3. With standing voltage : 2000VAC(one minute, between lines).
4. Insulation resistance : at 500VDC,more than 100MΩ(between lines).
5. Electrical specifications at 25°C

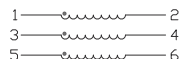
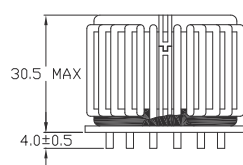
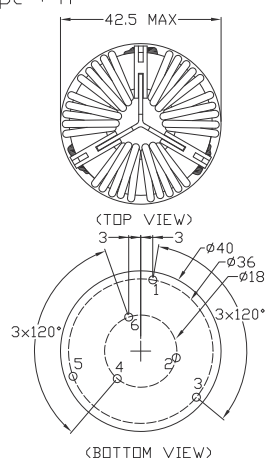
MGT-52900 SERIES

Common Mode Chokes For ThreePhase Power Lines

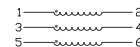
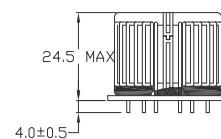
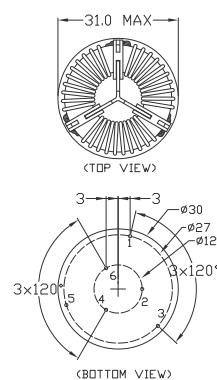
- Highest inductance with a low number of turns.
- Lowest DCR, Lower loss.
- Winding to winding isolation 3000 Vrms for 1 sec.
- Turn ratio 1 : 1: 1.



Type : A



Type : B



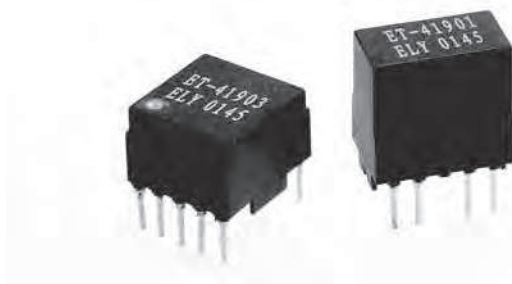
UNIT : mm

Part Number	Inductance	DCR 25°C (mΩMax)	Rated current Iac(A)	Wire Size (mm)	TYPE
MGT-52901	2.0	11	5.0	1.0	B
MGT-52902	2.6	15	4.0	0.9	B
MGT-52903	3.3	21	3.0	0.8	B
MGT-52904	5.0	7	10.0	1.6	A
MGT-52905	8.4	14	8.0	1.3	A
MGT-52906	12.7	28	6.0	1.1	A

1. Inductance tested at 10KHz / 0.1Vrms.
2. Operating temperature range - 40°C to + 130°C.
3. Electrical specifications at 25°C

MGT-41900 SERIES

Common Mode Chokes for ISDN



Symbols :

L_n = Rated Inductance of a winding (tol.+50%/-30%)
at 10 KHz, 100 mV

I_n = Permissible rated current of a winding

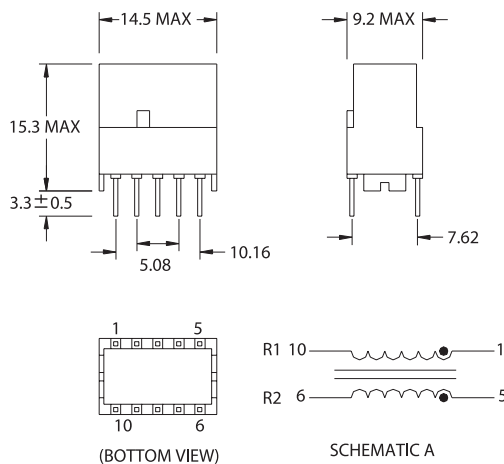
L_s = Leakage Inductance of a winding when all
other windings short circuit(nominal value)

R = D.C. Resistance of a windings

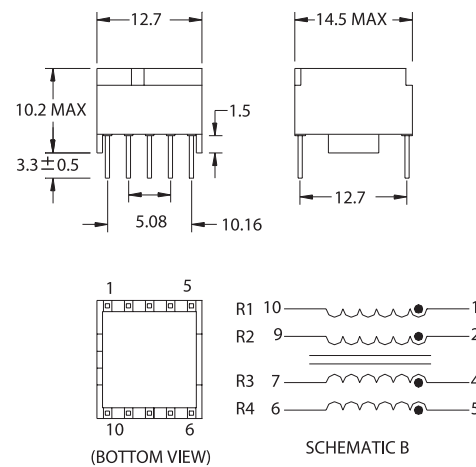
U_p = Hi-Pot test value 50 Hz, 1 to 2 sec, winding to
winding

Mechanical Dimensions:

TYPE 1



TYPE 2



UNIT:mm

Electrical Specifications at 25°C

Part Number	L_n (mHy)	I_n (mA)	L_s (μHy)	R 20°C (ohms max.)	U_p (KVrms)	Case Type	Schematic
MGT-41901	2*1.7	600	2.0	0.25(nom)	0.5	1	A
MGT-41902	2*12.5	350	1.5	1.5	0.5	1	A
MGT-41903	2*28	250	1.0	1.0	0.5	2	A
MGT-41904	2*28	250	1.0	1.0	0.5	1	A
MGT-41905	2*50	250	1.5	1.3	0.5	1	A
MGT-41906	2*70	200	1.0	2.1 (nom)	0.5	1	A
MGT-41907	4*1.7	400	2.0	0.25 (nom)	0.5	2	B
MGT-41908	4*1.7	400	2.0	0.25 (nom)	0.5	1	B
MGT-41909	4*5	300	0.8	0.45 (nom)	0.5	2	B
MGT-41910	4*5	300	0.8	0.45 (nom)	0.5	1	B
MGT-41911	4*11.5	250	1.5	1.5 (nom)	1.0	2	B
MGT-41912	4*11.5	250	1.5	1.5 (nom)	1.0	1	B
MGT-41913	4*58	200	1.5	1.0 (nom)	0.5	2	B
MGT-41914	4*58	200	1.5	1.0 (nom)	0.5	1	B
MGT-41915	4*90	150	2.0	1.8 (nom)	0.5	2	B
MGT-41916	4*90	150	2.0	1.8 (nom)	0.5	1	B

MGT-72000

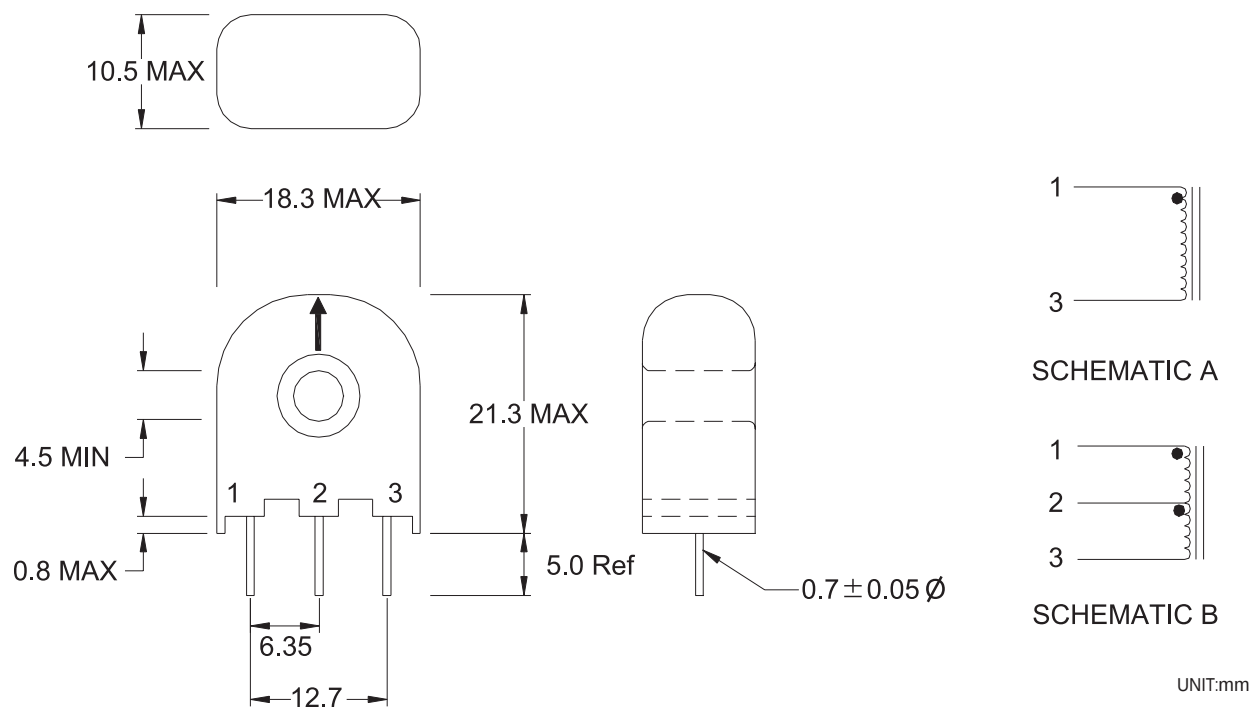
SERIES

Current Sense Inductors



- Secondary furnished
- Designed for switch power supply applications
- 2500Vrms primary to secondary Hi-Pot
- Frequency range 20KHz to 200KHz
- Encapsulated construction

Mechanical Dimensions:



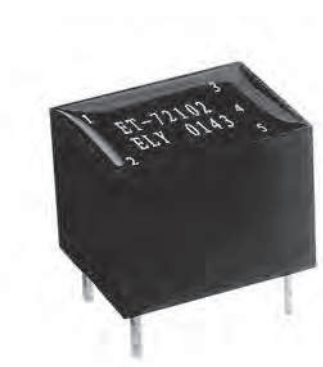
Electrical Specifications at 25°C — Operating Temperature -25°C to 125°C

Part Number	Schematic Figure	Secondary Turns	Secondary Inductance (mH Min)	Secondary DCR 20°C (Ω max.)	Secondary Rated Terminating Resistance (Ω Nom)	Primary Unipolar (Amp. μs) Rating (Max.)	Primary Bipolar (Amp. μs) Rating (Max.)	1 Turn Primary Peak Sense Current (Amps)
MGT-72001	A	50	5.0	0.7	50	150	300	20
MGT-72002	A	100	20.0	1.40	100	300	600	20
MGT-72003	A	200	80.0	4.50	200	600	1200	20
MGT-72004	A	300	180.0	11.0	300	900	1800	20
MGT-72005	A	50CT	5.0	0.7	50	150	300	20
MGT-72006	A	100CT	20.0	1.40	100	300	600	20
MGT-72007	A	200CT	80.0	4.50	200	600	1200	20
MGT-72008	A	300CT	180.0	11.0	300	900	1800	20

MGT-72100

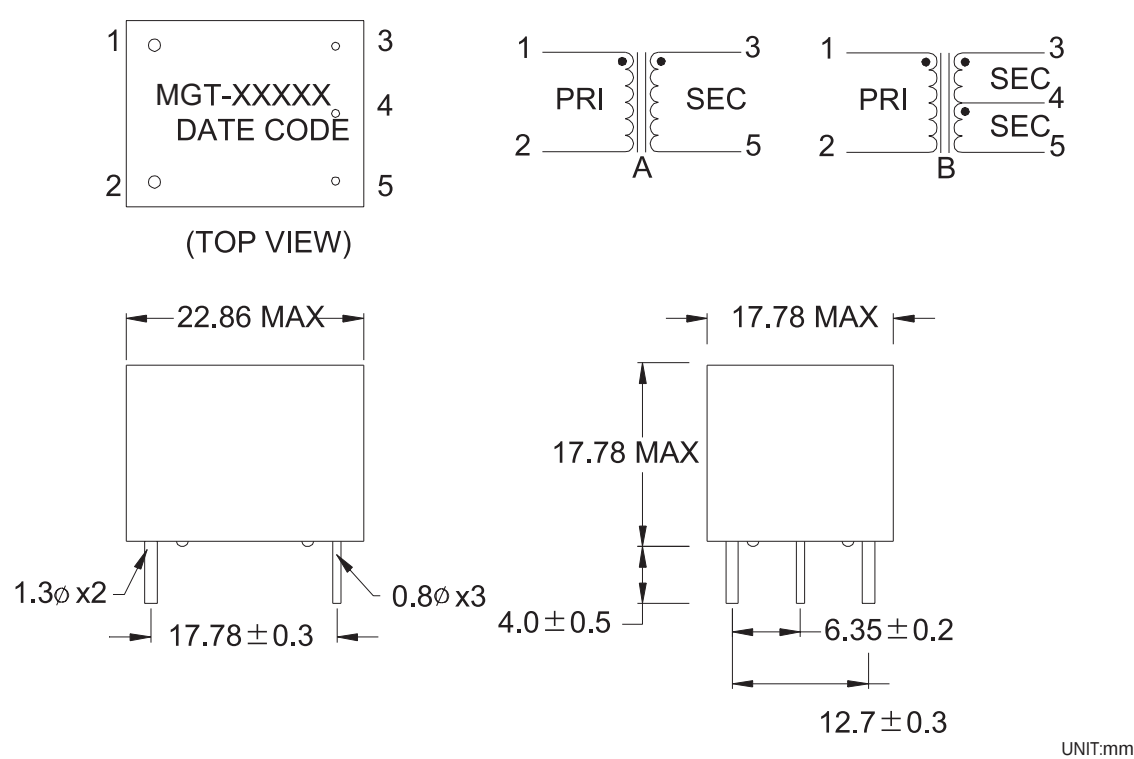
SERIES

Current Sense Transformers



- Primary and secondary furnished
- Designed for switch power supply applications
- Encapsulated with plastic housing and potting
- 3750Vrms primary to secondary Hi-Pot
- Frequency range 20KHz to 200KHz

Mechanical Dimensions:



Electrical Specifications at 25°C — Operating Temperature -25°C to 125°C

Part Number	Schematic Figure	Secondary Tums	Secondary Inductance (mH Min)	Secondary DCR 20°C (Ω max.)	Secondary Rated Terminating Resistance (Ω Nom)	Primary Unipolar (Amp. μs) Rating (Max.)	Primary Bipolar (Amp. μs) Rating (Max.)	1 Tum Primary Peak Sense Current (Amps)
MGT-72101	A	50	5.0	0.7	50	150	300	20
MGT-72102	A	100	20.0	1.40	100	300	600	20
MGT-72103	A	200	80.0	4.50	200	600	1200	20
MGT-72104	A	300	180.0	11.0	300	900	1800	20
MGT-72105	B	50CT	5.0	0.7	50	150	300	20
MGT-72106	B	100CT	20.0	1.40	100	300	600	20
MGT-72107	B	200CT	80.0	4.50	200	600	1200	20
MGT-72108	B	300CT	180.0	11.0	300	900	1800	20

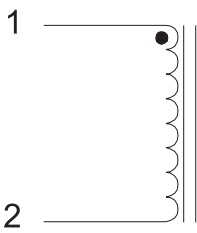
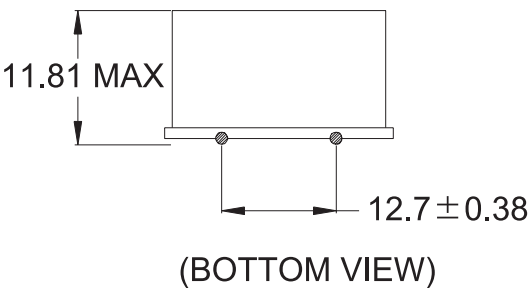
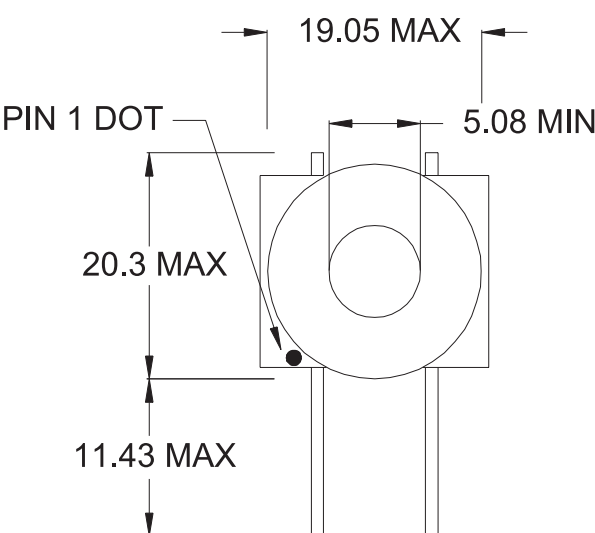
MGT-72200 SERIES

Current Sense Inductors



- Secondary furnished
- Designed for switch power supply applications
- 2500Vrms primary to secondary Hi-Pot
- Frequency range 20KHz to 200KHz
- Epgxy coating construction

Mechanical Dimensions:



UNIT:mm

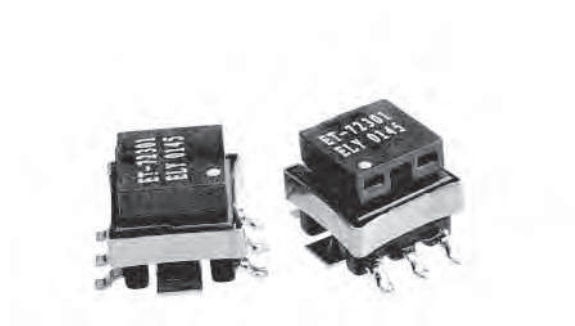
Electrical Specifications at 25°C — Operating Temperature -25°C to 125°C

Part Number	Secondary Turns	Secondary Inductance (mH Min)	Secondary DCR 20°C (Ω max.)	Secondary Rated Terminating Resistance (Ω Nom)	Primary Unipolar (Amp. μs) Rating (Max.)	Primary Bipolar (Amp. μs) Rating (Max.)	1 Turn Primary Peak Sense Current (Amps)
MGT-72201	50	5.0	0.7	50	150	300	20
MGT-72202	100	20.0	1.40	100	300	600	20
MGT-72203	200	80.0	4.50	200	600	1200	20
MGT-72204	300	180.0	11.0	300	900	1800	20



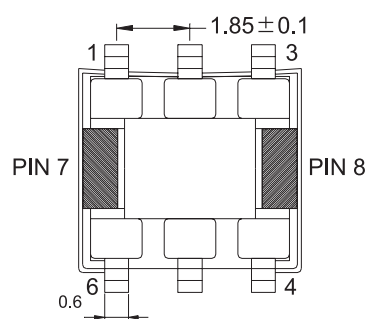
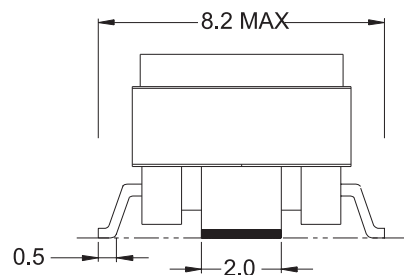
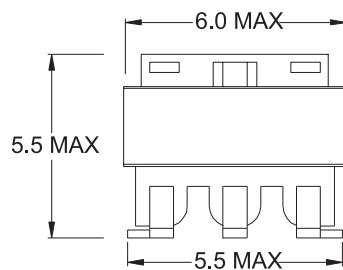
MGT-72300 SERIES

SMT Current Sense Transformers

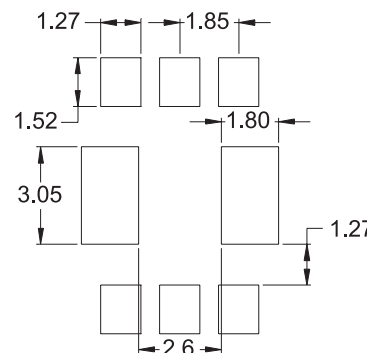


- Surface mount board assembly process applicable
- Designed for switch power supply applications
- Optimal performance at 100 KHz and above
- Primary rated for 6 amps AC rms
- Special design available on customer request

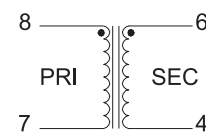
Mechanical Dimensions:



(BOTTOM VIEW)



RECOMMENDED PCB LAYOUT



UNIT:mm

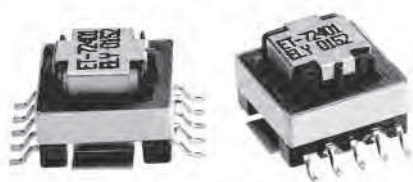
Electrical Specifications at 25°C — Operating Temperature -25°C to 125°C

Part Number	Turns Ratio pri : sec	Secondary Inductance at 10KHz,0.1V (μ H Min)	Secondary DCR 20°C (Ω Max)	Primary Current Maximum (Amps)	Hi-pot (Vrms)
MGT-72301	1:70	980	4.75	6	500
MGT-72302	1:40	320	1.14	6	500
MGT-72303	1:30	180	0.87	6	500
MGT-72304	1:20	80	0.55	6	500
MGT-72305	1:50	500	1.50	6	500
MGT-72306	1:60	720	1.75	6	500
MGT-72307	1:100	2000	5.50	6	500
MGT-72308	1:125	3000	6.50	6	500



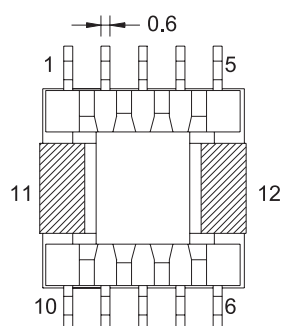
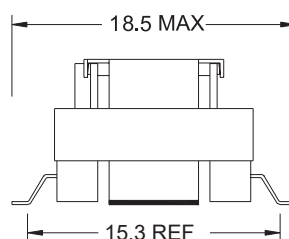
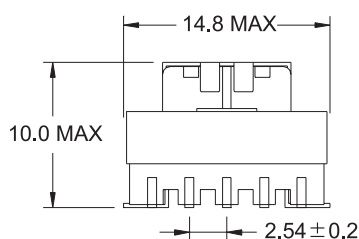
MGT-72400_{SERIES}

SMT Current Sense Transformers

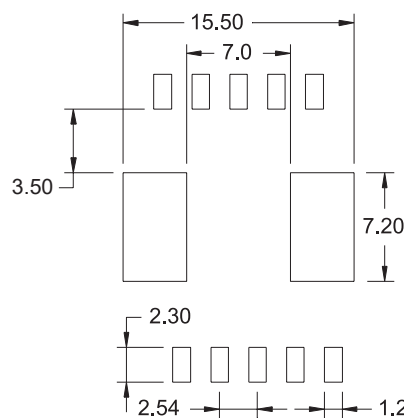


- High Current—primary rated for 35 Amps
- Designed for automatic pick and place
- Operating Frequency Range : 50KHz to 500KHz
- Low profile—height 10 mm maximum

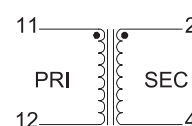
Mechanical Dimensions:



(BOTTOM VIEW)



RECOMMENDED PCB LAYOUT



UNIT:mm

Electrical Specifications at 25°C — Operating Temperature -25°C to 125°C

Part Number	Turns Ratio pri : sec	Secondary Inductance at 10KHz, 0.1V (mH Min)	Secondary DCR 20°C (Ω Max)	Primary Current Maximun (Amps)	Hi-pot (Vrms)
MGT-72401	1:30	0.50	0.34	35	500
MGT-72402	1:50	1.40	0.57	35	500
MGT-72403	1:70	2.70	0.80	35	500
MGT-72404	1:100	5.60	1.50	35	500
MGT-72405	1:200	22.0	5.00	35	500
MGT-72406	1:300	50.0	12.00	35	500

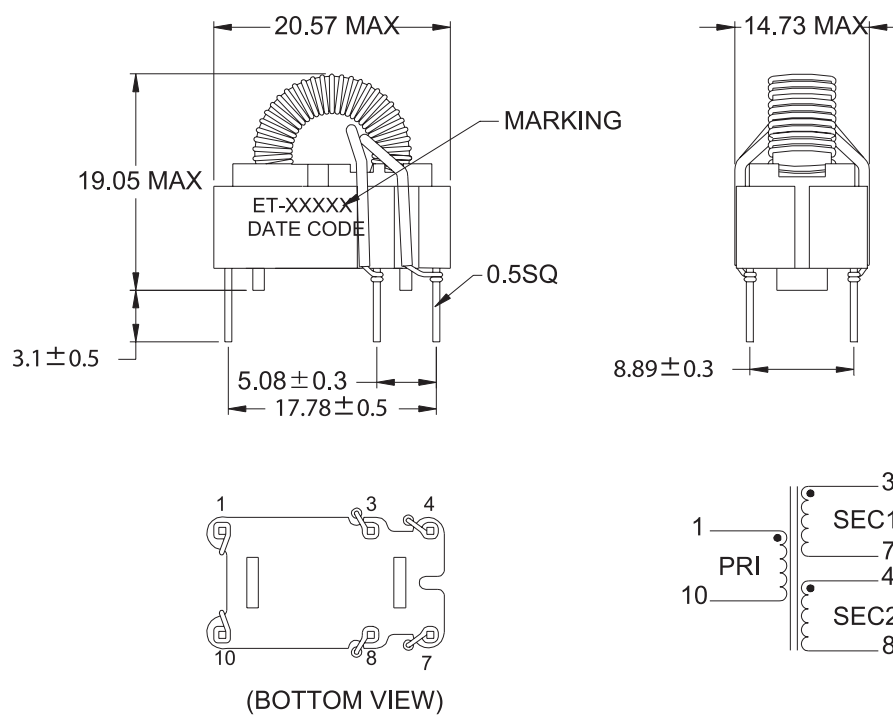
MGT-72500_{SERIES}

THT Current Sense Transformers



- 3000 Vrms gate to drive winding test
- Operating frequency from 50KHz to 500KHz
- Popular winding configurations

Mechanical Dimnsions:

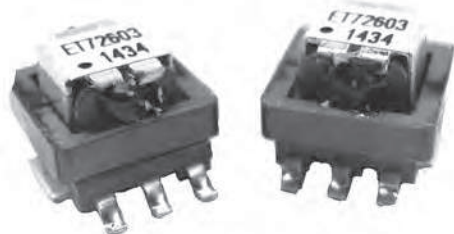


Electrical Specifications at 25°C — Operating Temperature -25°C to 125°C

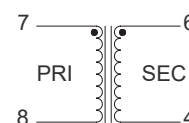
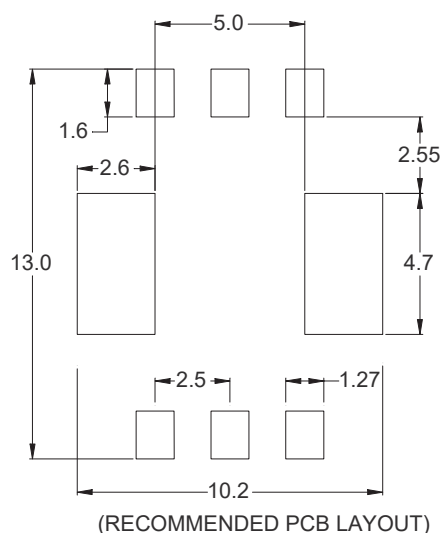
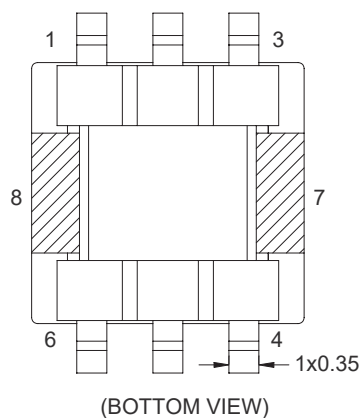
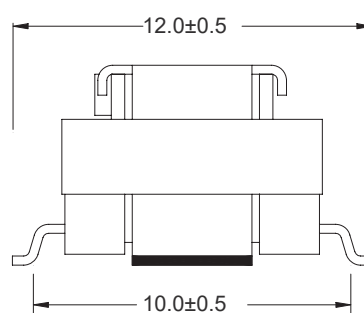
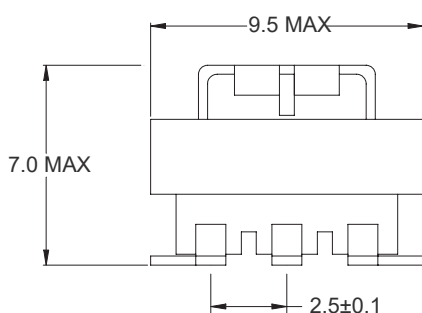
Part Number	Turns Ratio (PRI:SEC1:SEC2)	Primary Inductance 15KHz,0.1V (mH MIN)	DCR PRI (Ω MAX) 20°C	DCR SEC1 (mΩ MAX) 20°C	DCR SEC2 (mΩ MAX) 20°C	Hi-pot (Pri-Sec)(Vrms)
MGT - 72501	50:1:1	5	0.7	5.0	5.0	3000
MGT - 72502	100:1:1	20	1.4	5.0	5.0	3000
MGT - 72503	200:1:1	80	4.5	5.0	5.0	3000
MGT - 72504	300:1:1	180	11.0	5.0	5.0	3000
MGT - 72505	40:1:1	3.2	0.56	5.0	5.0	3000

MGT-72600 SERIES

Current Sense Transformer



- High Current – primary rated for 35 Amps.
- Designed for automatic pick and place.
- Operating Frequency Range up to 100KHz.
- Low profile – height 7.0 mm maximum.



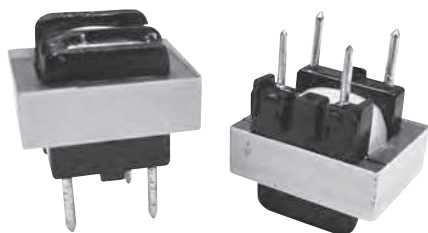
UNIT : mm

Electrical Specifications at 25°C — Operating Temperature -25°C to 125°C

Part Number	Turns Ratio pri:sec	Secondary Inductance at 10KHz, 0.1V (mH Min)	Secondary DCR 20°C (Ω Max)	Primary Current Maximun (Amps)	Hi-pot (Vrms)
MGT-72601	1:30	0.20	0.25	35	500
MGT-72602	1:50	0.55	0.65	35	500
MGT-72603	1:70	1.10	1.40	35	500
MGT-72604	1:100	2.10	3.00	35	500
MGT-72605	1:200	9.00	8.00	35	500
MGT-72606	1:300	20.0	20.0	35	500

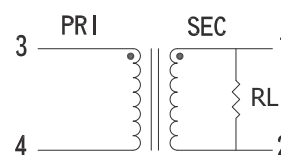
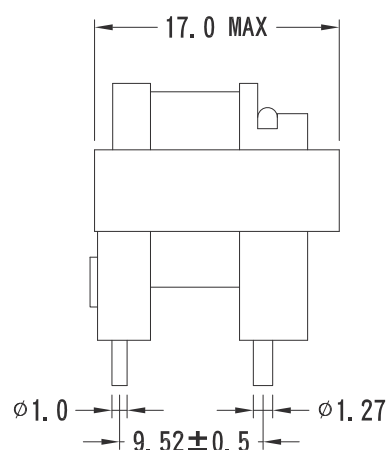
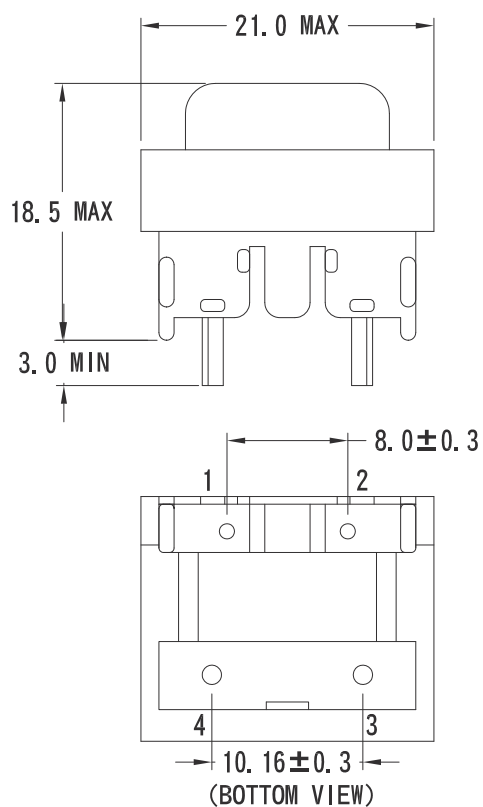
MGT-7292X_{SERIES}

Current Sense Transformers



- Performance & Specification for 50/60Hz.
- Insulation Resistance: 500V DC, >100MΩ.
- Operating Temperature -25°C to 85°C.
- Primary Rated current for 5Amps AC rms.

Mechanical Dimensions:



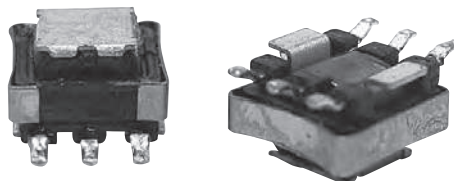
UNIT : mm

Electrical Specifications at 25°C

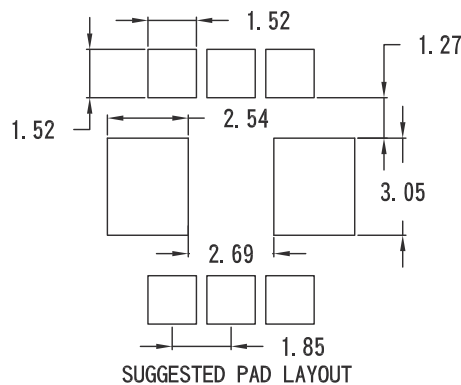
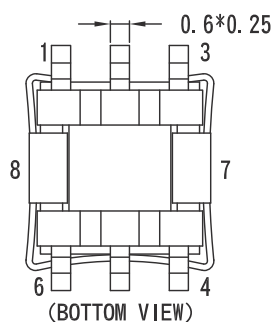
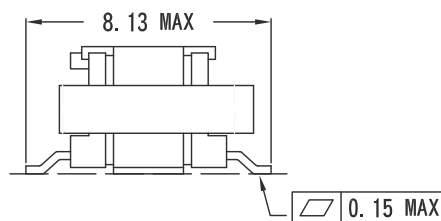
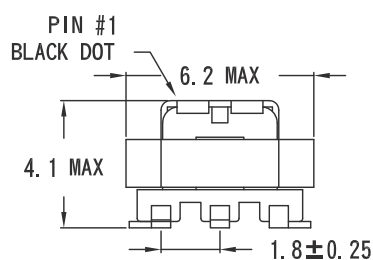
Part Number	Rated Current (A) primary	Voltage secondary Typ (VAC)	Resistance Load (Ω)	DC Resistance secondary (Ω)MAX	TURN RATIO PRI : SEC
MGT-72920	5.0	1.6	200	20	1 : 500

MGT-72300C SERIES

SMD Current Sense Transformers



- Low profile – height 4.1mm max.
- Designed for automatic pick and place.
- Operating frequency range 10KHz to 1MHz.
- Primary rated for 20 Amps AC rms max.
- Special design available on customer request.



UNIT : mm

Electrical Specifications at 25°C — Operating Temperature -25°C to 125°C

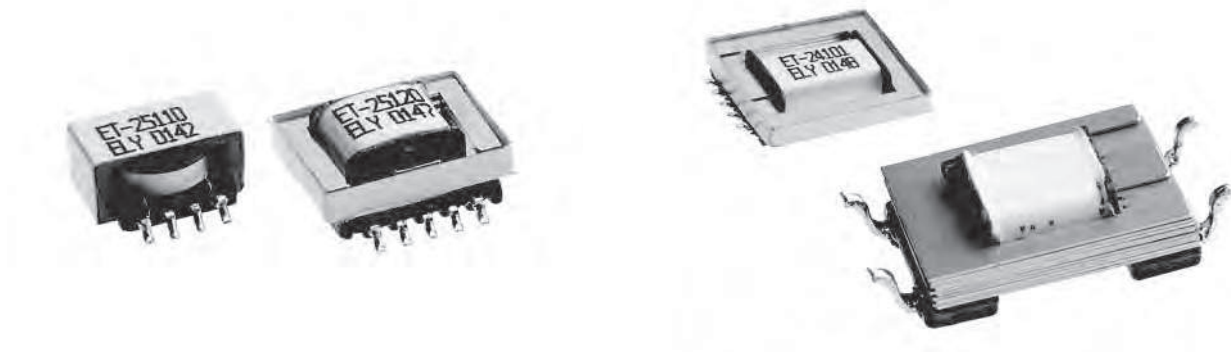
Part Number	Secondary Inductance @10KHz, 0.1Vrms (uH MIN)	Secondary DCR 20°C (Ω Max)	Turn Ratio (pri : sec)	Hi – pot (Vrms)	Primary Current maximum (Amps)
MGT-72301C	66	0.50	1 : 20	500	20
MGT-72302C	148	0.75	1 : 30	500	20
MGT-72303C	264	1.03	1 : 40	500	20
MGT-72304C	412	1.61	1 : 50	500	20
MGT-72305C	594	1.98	1 : 60	500	20
MGT-72306C	808	2.97	1 : 70	500	20
MGT-72307C	1650	5.36	1 : 100	500	20
MGT-72308C	2570	6.67	1 : 125	500	20
MGT-72309C	6600	33.24	1 : 200	500	20



MGT-25100 SERIES

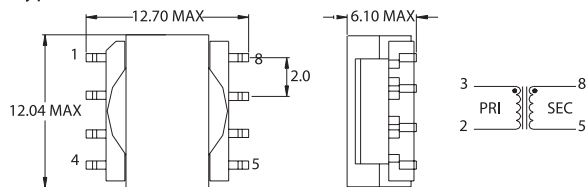
Surface Mount / PCMCIA Transformers

LR 110551   E 144311

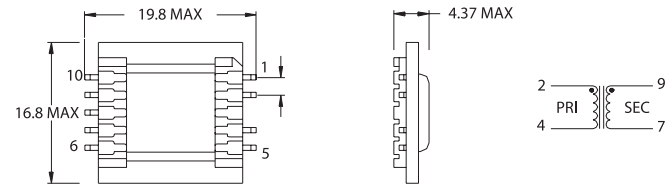


Mechanical Dimensions:

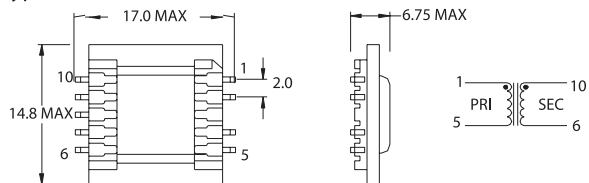
Type A



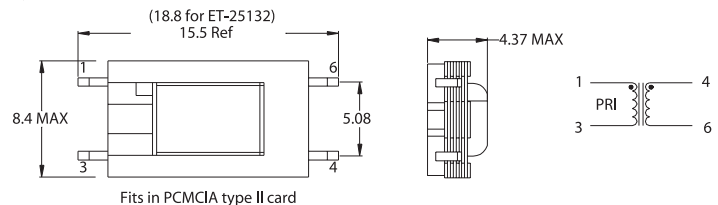
Type B



Type C



Type D



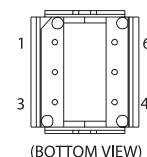
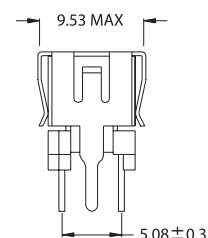
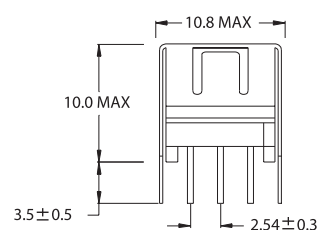
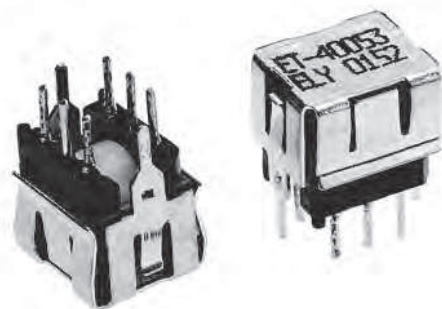
UNIT:mm

Specifications	MGT-25101	MGT-25102	MGT-25110	MGT-25120	MGT-25130	MGT-25132	MGT-25133	Unit
Suitable for modem speed up to:	V .32 bis	V .32 bis	V.29	V.32bis	V.32 bis	V.34	V.34	-----
Reflects 600 ohms at PRI with R load =	294	294	487	332	301	290	300	ohms
D.C. Resistance, 20°C, ±10%, PRI	156	155	67	132	150	141	140	ohms
D.C. Resistance, 25°C, ±10%, SEC	145	159	85	132	150	171	170	ohms
Frequency Response, 300 to 3500 Hz	±0.25	±0.25	±0.5	±0.25	±0.15	±0.10	±0.10	dB
Insertion Loss at 1 KHz, 25°C	3.15 ± 0.25	3.30 ± 0.25	1.5 max	2.6 ± 0.35	3.3 ± 0.25	3.3 ± 0.25	3.15 ± 0.35	dB
Return Loss vs. 600 ohms at 1 KHz	25 min	20 min	17 typ.	25 min	25 min	30 min	25 min	dB
Dielectric Test PRI-SEC	1250	1650	1250	1250	1250	1250	1250	V AC
Direct Current PRI, maximum	none	none	none	none	none	none	none	mA DC
Turns Ratio (PRI:SEC), ±2%	1:1	1:1	1:1	1:1	1:1	1:1	1:1	----
Longitudinal Balance, 60 to 1000 Hz, min.	60	60	60	60	60	60	60	dB
Longitudinal Balance, 1000 to 4000 Hz, min.	40	40	40	40	40	40	40	dB
Total Harmonic Dist., 600 Hz, -10 dBm	-76 max	-76 max	-60 typ.	-76 max	-76 max	-85 max	-90 max	dB
Type	B	B	A	C	D	D	D	

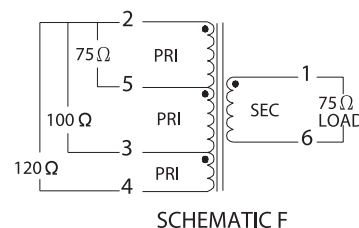
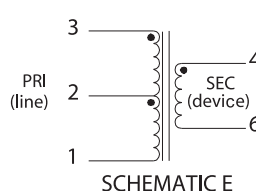
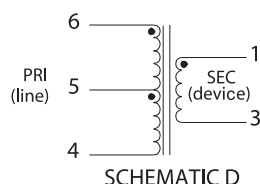
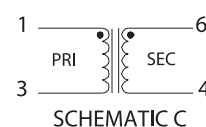
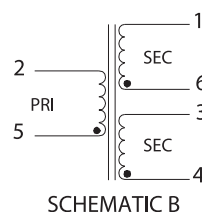
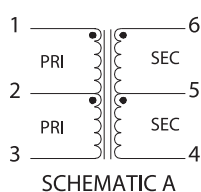


MGT-40050 SERIES

T1/E1/ISDN Primary Rate Transformers



Mechanical Dimensions:

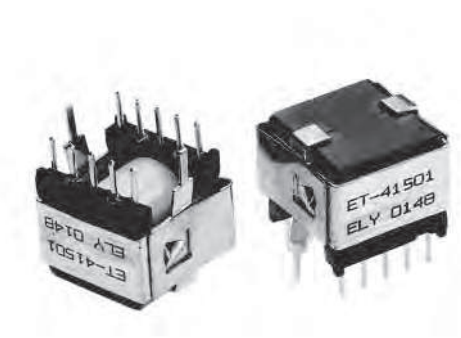


UNIT:mm

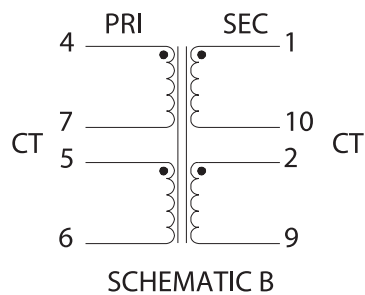
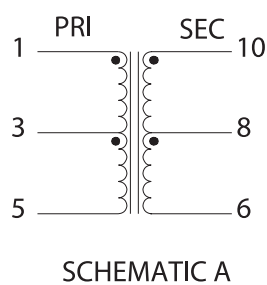
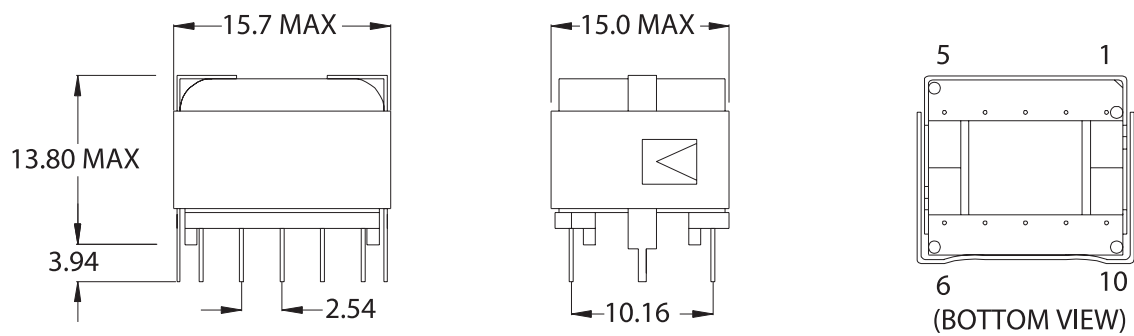
Specifications	MGT-40051	MGT-40052	MGT-40053	MGT-40054	MGT-40055	MGT-40056	MGT-40057	MGT-40058	Unit
Reflects on PRI =	100	100	100	75/100/120	100	100	100	100	ohms
Reflects on SEC =	100	400	24.9	75	200	----	----	----	
Longitudinal Balance, 1.544 MHz 1 MHz	35 min.	35 min.	3 5 min.	40 min.	35 min.	35 min.	35 min.	35 min.	dB
D.C.Resistance, 20°C, PRI	1.0 max.	0.6 max.	2.0 max.	0.95-1.55	0.4 max.	0.2 max.	0.2 max.	0.2 max.	ohms
SEC	1.0 max.	0.6 max.	1.0 max.	0.75-1.15	0.6max.	0.5 max.	0.5 max.	0.5 max.	
Insertion Loss, 772 KHz	0.2 max.	0.075 ± 0.025	0.125 ± 0.025	0.25 max.	-----	-----	-----	-----	dB
Return Loss, 100 KHz - 1.544 MHz 50 KHz - 3 MHz	25 min.	15 min.	-----	20 min.	26 min.	-----	-----	-----	dB
Dielectric Test PRI-SEC	1250	1250	1250	1250	1250	1500	1500	1500	VAC
Turns Ratio (PRI:SEC), ±2%	1 : 1	1 : 1 : 1	2 : 1	-----	1 : 1.414	1 : 1.36	1 : 1	1 : 1.15	-----
Inductance, 25°C, 10 KHz, 0.5 V 1 KHz, 0.1 V	1.4 min.	0.6 min.	3 min.	1.3 min.	1.2 min.	0.7 min.	0.7 min.	0.7 min.	mHy
Leakage Inductance, 10 KHz, 0.1 V	1.5 max	0.75max.	3 max	0.5 max.	-----	1.3 max	0.8 max.	1.3 max.	uHy
Interwinding Capacitance, 10 KHz	----	35max.	-----	45 ref.	-----	-----	-----	-----	pF
Frequency Response, 100 KHz-4 MHz 50 KHz-3 MHz	-----	+0.25 / -0.5	± 0.25	± 0.15	-----	-----	-----	-----	dB
Schematic	A	B	A	F	C	D	E	D	----

MGT-41500 SERIES

ISDN So Interface Transformers for EP Type



Mechanical Dimensions:



UNIT:mm

Electrical Specifications at 25°C

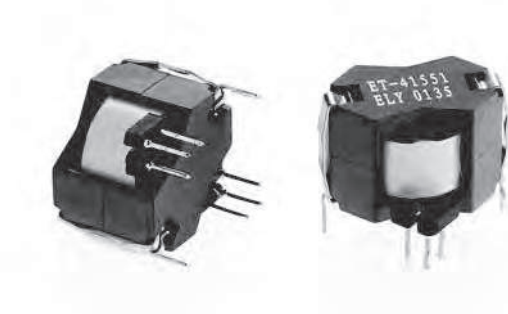
Part Number	Pri Inductance (10 KHz) min.	Leakage Inductance (10 KHz) max.	Interwinding Capacitance (10 KHz) max.	D.C. Resistance (20°C) ohms max		Turns Ratio ±2% Pri : Sec.	Schematic	Dielectric Voltage Pri. to Sec.
MGT-41501	(30 mHy typ.) 22 mHy	20 μ Hy	30 pF	1.1	2.5	1ct : 1ct	A	1,500 Vrms for 1 min
MGT-41502		20 μ Hy	30 pF	1.1	1.3	1ct : 1ct	A	
MGT-41503		20 μ Hy	30 pF	1.1	4.2	1ct : 2.5ct	A	
MGT-41504		20 μ Hy	30 pF	1.1	2.5	1ct : 1.8ct	A	
MGT-41541	22 mHy	20 μ Hy	35 pF	6.0	2.8	2.5ct : 1ct	B	1000 Vrms



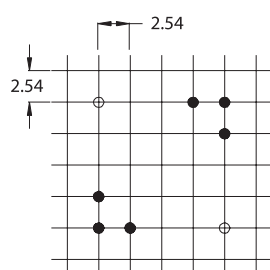
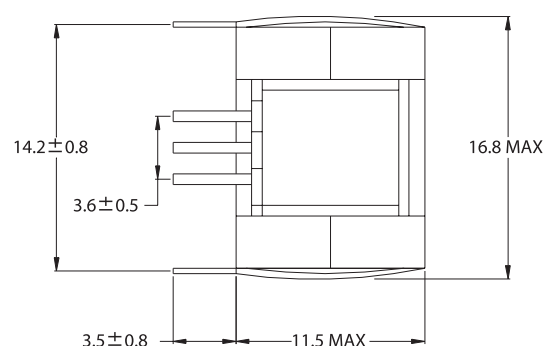
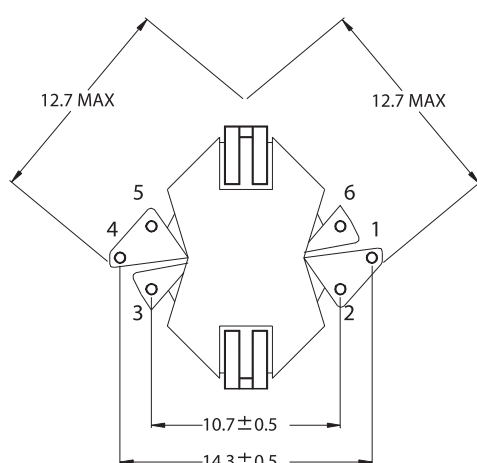
MGT-41550_{SERIES}

ISDN So Interface Transformers for RM Type

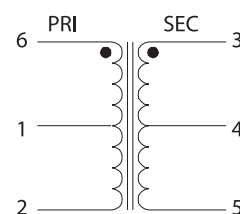
It supports CCITT 1.430 recommendations
for ISDN basic access <19.2Kbps



Mechanical Dimensions:



- Holes for Clip pins 1.3Ø
- Holes for Bobbin pins 1.0Ø



UNIT:mm

Electrical Specifications at 25°C

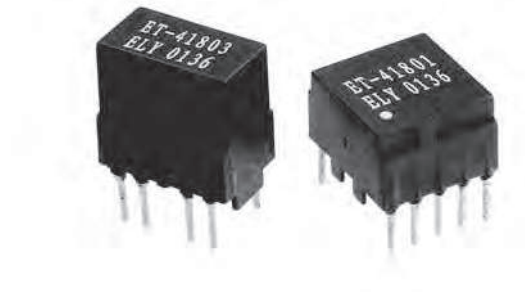
Part Number	Pri Inductance (10 KHz) min.	Leakage Inductance (10 KHz) max	Interwinding Capacitance (10 KHz) max.	D.C. Resistance (20°C) ohms max		Turns Ratio ±2% Pri : Sec.	Dielectric Voltage Pri to Sec.
				Pri.	sec.		
MGT-41551	(30 mHy typ.) 20 mHy	25 μ Hy	30 pF	2.2	4.6	1ct : 2ct	1,500 Vrms for 1 min
MGT-41552		25 μ Hy	30 pF	2.2	1.5	1ct : 1ct	
MGT-41553		25 μ Hy	30 pF	2.2	9.0	1ct : 2.5ct	
MGT-41554		25 μ Hy	30 pF	2.2	4.0	1ct : 1.8ct	

MGT-41800

SERIES

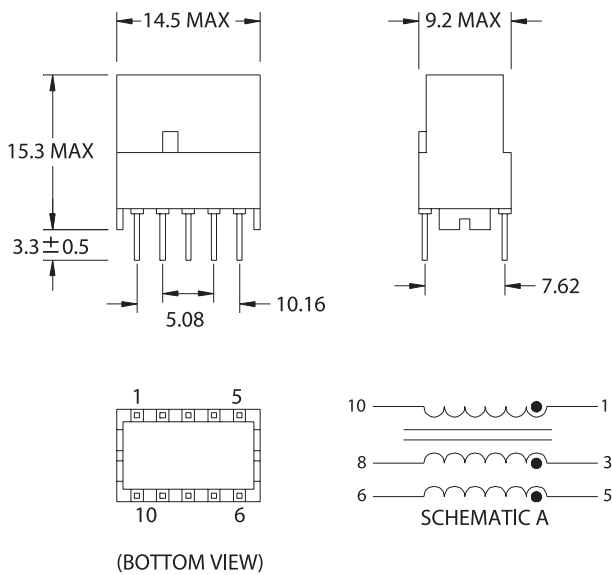
ISDN So Interface Transformers

- Signal transmit for the So interface in ISDN
- 1500 Vrms Hi-Pot

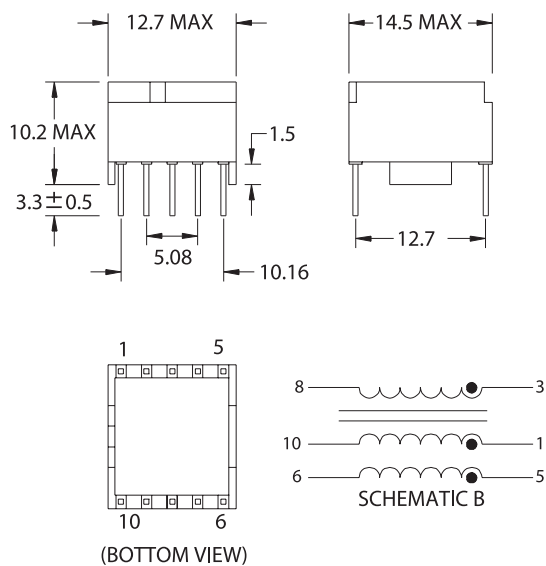


Mechanical Dimensions:

TYPE 1



TYPE 2



UNIT:mm

Electrical Specifications at 25°C

Part Number	Turns Ratio (±2%)	Primary Sine Wave OCL (mHy min)	Pri/Sec Leakage Inductance (μ Hy max.)	Pri/Sec C w/w (pF max.)	CMRR Test (pF max.)	C w/w (pF)	Primary DCR 20°C (ohms)	Secondary DCR 20°C (ohms)	Case Type	Schematic
MGT-41801	4:1:1	30	1.5	30	60	30	1.9	0.3	2	A
MGT-41802	4:1:1	30	1.5	30	60	30	1.9	0.3	1	A
MGT-41803	4:1:1	30	1.5	30	60	30	1.9	0.3	1	B
MGT-41821	4:1:1	30	2.5	30	58	30	3.8	0.6	2	A
MGT-41822	4:1:1	30	2.5	30	58	30	3.8	0.6	2	B
MGT-41823	4:1:1	30	2.5	30	58	30	3.8	0.6	1	A
MGT-41824	4:1:1	30	2.5	30	58	30	3.8	0.6	1	B

MGT-42000 SERIES

Uko-Interface Transformers for ISDN

Symbols :

Ls = Leakage Inductance of secondary windings connected in series with primary windings shorted (at 100 KHz, 100 mV)

Ck = Coupling Capacitance between primary and secondary windings(at 10 KHz, 100 mV)

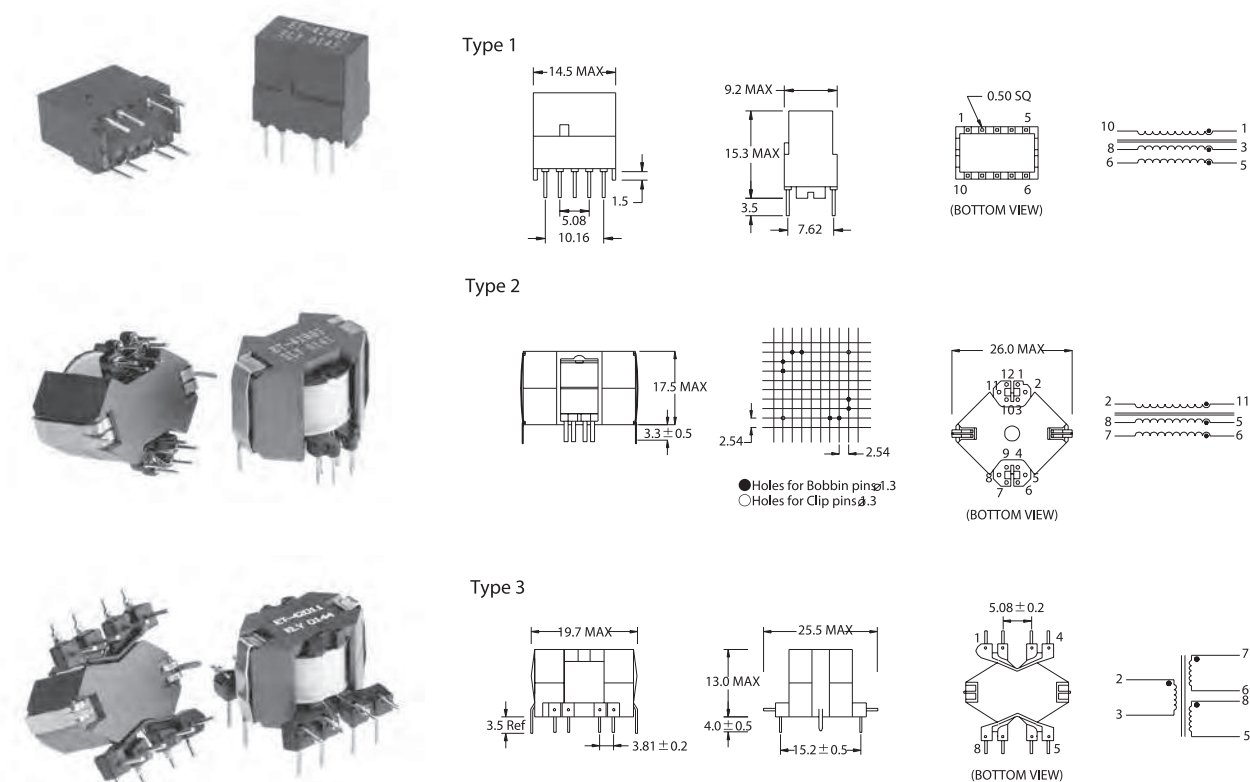
Lh = Main Inductance of secondary windings connected in series(at 10 KHz, 100 mV)
;MGT-42001 & MGT-42002 must add Idc.

R1 = D.C. Resistance of individual primary winding(nominal value)

R2,3 = D.C. Resistance of individual secondary windings(nominal value)

Up = Hi-Pot Test value, 50 Hz, 2 sec, primary to secondary windings

Mechanical Dimensions:



Electrical Specifications at 25°C

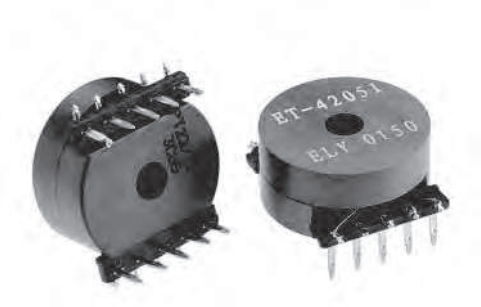
Part Number	Turns Ratio (±2%)	Idc (mA)	Ls (μHy max)	Ck (pF max)	Lh (mHy)	R1 20°C (ohms)	R2,R3 20°C (ohms)	Up (KVrms)	Type
MGT-42001	1 : 0.66 : 0.66	40	9	120	6.6 ± 10 %	4.0	3.0(2)	2.0	1
MGT-42002	1 : 0.66 : 0.66	60	9	150	6.35 ± 12 %	3.5	2.4	2.0	1
MGT-42003	1 : 0.66 : 0.66	60	55	60	14.5 ± 10 %	1.8	2.7(2)	2.0	2
MGT-42004	1 : 0.66 : 0.66	60	50	75	7.9 ± 10 %	1.3	1.9(2)	2.0	2
MGT-42005	1 : 0.8 : 0.8	60	90	80	14.5 ± 10 %	2.7	2.8(2)	2.0	2
MGT-42006	1 : 1.25 : 1.25	60	100	100	14.5 ± 10 %	2.7	1.8(1)(2)	2.0	2
MGT-42007	1 : 0.75 : 0.75	80	50	---	27 ± 10 %	5.5max.	9 max.	2.0	2
MGT-42008	1 : 0.75 : 0.75	30	160	---	80 ± 10 %	11.8max.	13.8max.	2.0	2
MGT-42009	1 : 1 : 1	80	200	300	27 ± 10 %	4 max.	6 max.	2.0	2
MGT-42010	1 : 0.625 : 0.625	80	60	---	28 ± 10 %	5 max.	11 max.	2.0	2
MGT-42011	1 : 1 : 1	50	60	90	15 ± 10 %	3.05	6.5 (2)	2.0	3

Remarks : (1) R2-R3 = 80 mohms (2) R2+R3

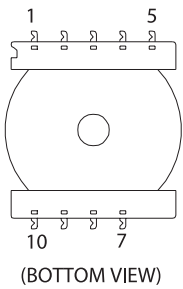
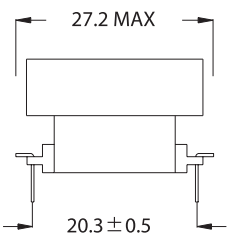
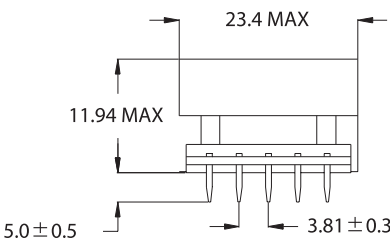
MGT-42050 SERIES

Uko-Interface Transformers for ISDN

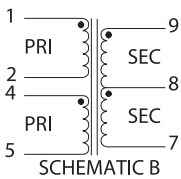
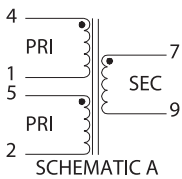
- Meets to UL 1459 and 1950
- Meets ANSI T1.601 and ETSI ETR080 standards



Mechanical Dimensions:



(BOTTOM VIEW)



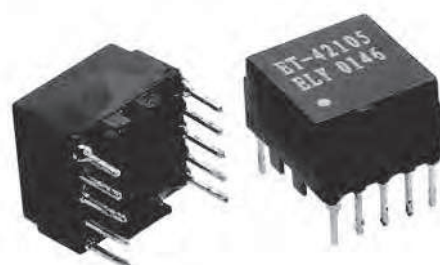
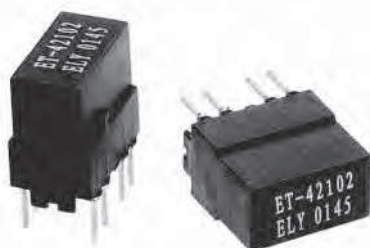
UNIT:mm

Specifications	MGT-42051	MGT-42052	MGT-42053	MGT-42054	Unit
Reflects on PRI =	135	135	135	135	ohms
Reflects on SEC =	30	30	31.6	75	ohms
D.C.Resistance,20°C,PRI,max.	10.0 SERIES	10.0 SERIES	5.26 SERIES	8 SERIES	ohms
,SEC,max.	3.0	1.6	1.3	12 SERIES	ohms
Frequency Response,2 KHz to 200 KHz	±0.5	-----	-----	±0.10	dB
Insertion Loss at 10 KHz,25°C	3.5	-----	-----	-----	dB
Return Loss vs.135 ohms at 10 KHz to 25 KHz	20 min.	20 min.	-----	30 typ.	dB
Dielectric Test PRI-SEC	1100	1100	1100	1500	V AC
Direct Current PRI, maximum	60	20	60	60	mA DC
Longitudinal Balance,281 to 40 KHz	-----	55 min.	-----	-----	dB
Turns Ratio (PRI:SEC), ± 2%	1.5 : 1	1.5 : 1	2 : 1	1.25 : 1	-----
Total Harmonic Dist.,500 Hz,5 Vp-p	-53.5 typ.	-45 typ.	-----	-----	dB
Inductance,1 KHz on PRI	27 ± 5%	27 ± 5%			mHy
,10KHz on PRI			25 ± 10 %	26.5 - 30.0	mHy
Leakage Inductance,10 KHz	-----		17 max.	-----	uHy
,100KHz		33.5 typ			uHy
Interwinding Capacitance,10 KHz	-----	-----	-----	150 typ.	pF
Schematic	A	A	A	B	-----



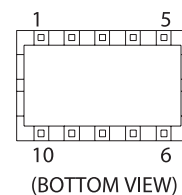
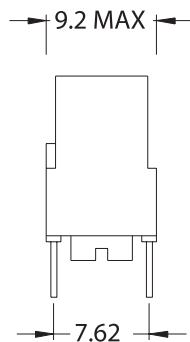
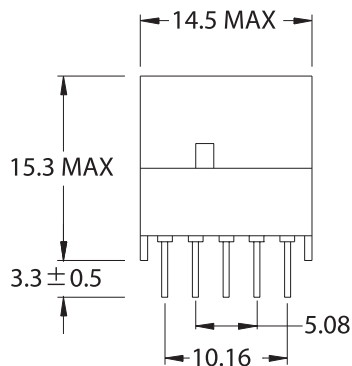
MGT-42100 SERIES

S2M-Interface Transformers for ISDN

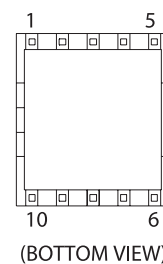
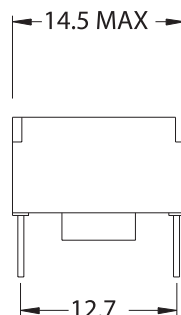
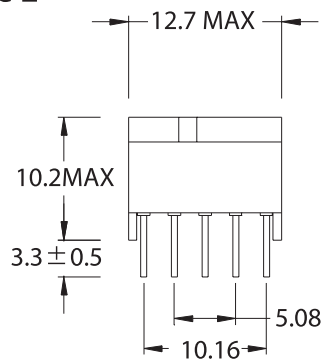


Mechanical Dimensions:

Type 1



Type 2



UNIT:mm

MGT-42100 SERIES

S2M-Interface Transformers for ISDN

Symbols :

Ls = Leakage Inductance of secondary winding, when the primary winding short-circuit
(at 100 KHz, 100 mV)

Ck = Coupling Capacitance between each winding (at 10 KHz, 100 mV)

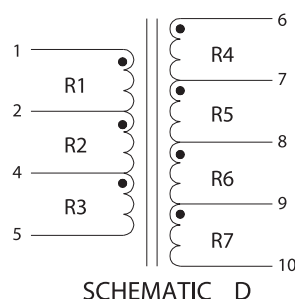
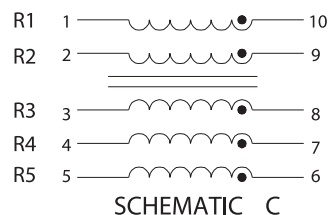
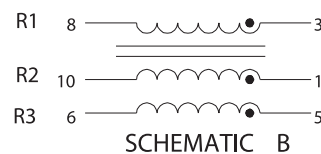
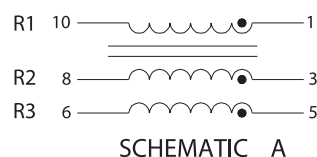
Lh = Principal Inductance of winding (at 10 KHz, 100 mV)

R1 = D.C. Resistance of winding (nominal value) ET-42101, ET-42102 : R1 = R2 = R4 = R5

R2,3 = D.C. Resistance of winding 2,3 (nominal value)

Up = Hi-Pot Test value, 50 Hz, 1 to 2 sec, winding 1 to winding 2+3 MGT-42101,
MGT-42102 : winding to winding

Mechanical Dimensions:



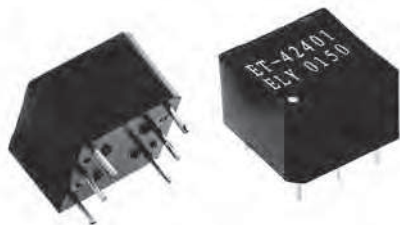
Electrical Specifications at 25°C

Part Number	Turns Ratio (±2%)	Ls (μHy max)	Ck (pF max)	Lh (mHy min)	R1 20°C (ohms)	R2,3 20°C (ohms)	Up (KVrms)	Case Type	Schematic
MGT-42101	1.5:1.5:1:1.5:1.5	0.4	10	0.7	0.17	0.11	2.0	2	C
MGT-42102	1.5:1.5:1:1.5:1.5	0.4	10	0.7	0.17	0.11	2.0	1	C
MGT-42103	2:1:1	0.5	---	2	0.3	0.15	2.0	1	A
MGT-42104	5/4:1:2/8/8/2	2.0	---	2	(1)	(1)	2.0	1	D
MGT-42105	4:1:1	0.25	15	12	0.7	0.25	2.0	2	B
MGT-42106	4:1:1	0.25	15	12	0.7	0.25	2.0	1	A
MGT-42107	2:1:1	0.2	15	2	0.3	0.15	2.0	2	B
MGT-42108	2:1:1	0.2	15	2	0.3	0.15	2.0	1	A
MGT-42109	1.67:1:1	0.25	15	2	0.25	0.15	2.0	2	B
MGT-42110	1.67:1:1	0.25	15	2	0.25	0.15	2.0	1	A
MGT-42111	2.67:1:1	0.25	15	5	0.4	0.15	2.0	2	B
MGT-42112	2.67:1:1	0.25	15	5	0.4	0.15	2.0	1	A

Remarks : (1)R1=75 mohms,R2=60 mohms,R3=24 mohms,R4,7=80 mohms,R5,R6=220 mohms(nominal value)

MGT-42400 SERIES

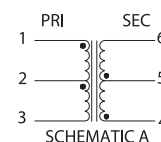
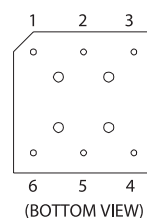
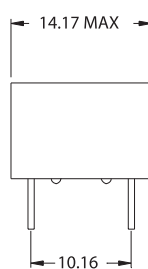
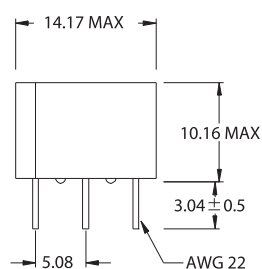
ISDN So Interface Isolation Transformers



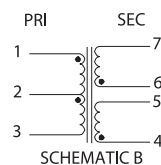
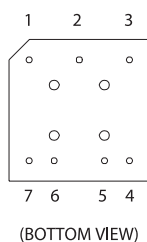
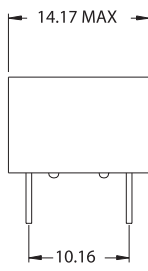
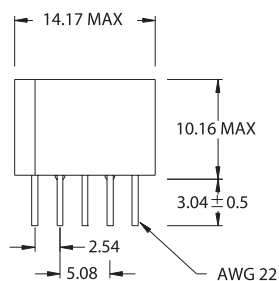
- Provides isolation for line card and terminal
- 2.0 KVrms Hi-Pot Pri/Sec in conformance with international safety standards
- 60 dB min. Longitudinal Balance 10 KHz-300 KHz

Mechanical Dimensions:

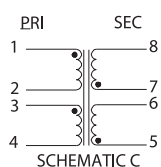
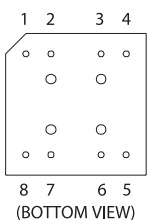
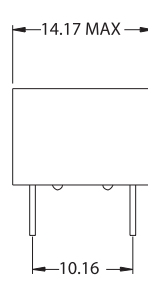
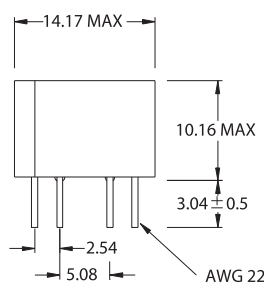
TYPE A



TYPE B



TYPE C



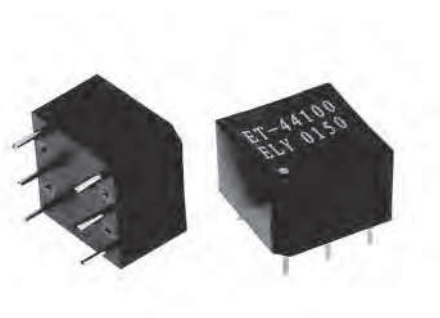
UNIT:mm

Electrical Specifications at 25°C

Part Number	Turns Ratio (±2%)	Primary Sine Wave OCL (mHy min.)	Pri/Sec Leakage Inductance (μHy max)	Pri/Sec C w/w (pF max)	CD pri (pF max)	Primary DCR 20°C (Ω ±25%)	Secondary DCR 20°C (Ω ±25%)	Type & Schematic
MGT-42401	1CT : 1CT	22	5	100	42	2.4	2.4	A
MGT-42402	1CT : 1.8CS	22	15	100	160	2.5	4.2	B
MGT-42403	1CT : 2CT	22	11	100	180	2.4	4.4	A
MGT-42404	1CS : 2.5CS	22	15-40	100	110	2.5	5.8	C
MGT-42405	1CS : 2CT	22	15	100	80	2.5	4.3	A
MGT-42406	1CT : 2.5CS	22	30	100	150	2.5	5.8	B

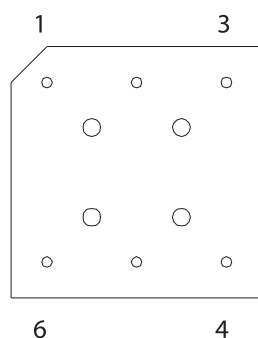
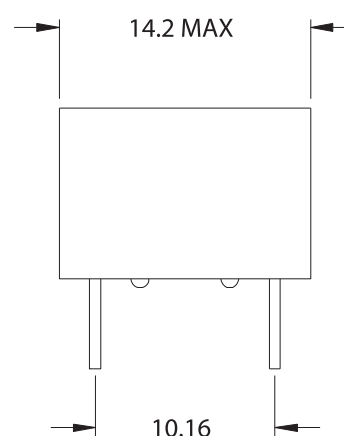
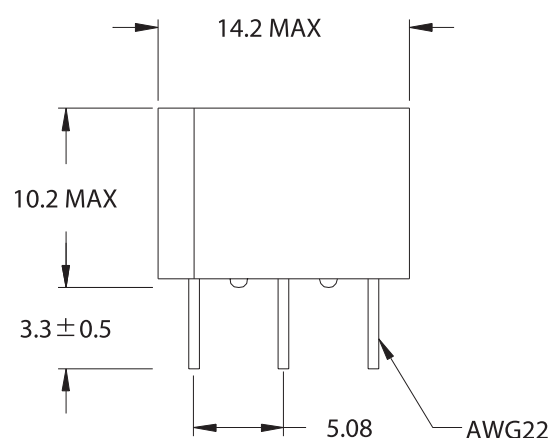
MGT-44100_{SERIES}

64Kbps Interface Transformers

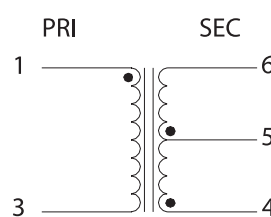


- Transformers are matched to the integrated Circuit
- Small, encapsulated package
- Provide 2000 Vrms isolation

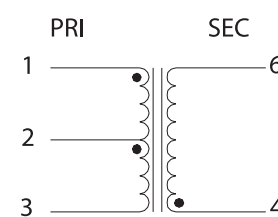
Mechanical Dimensions:



(BOTTOM VIEW)



SCHEMATIC A



SCHEMATIC B

UNIT:mm

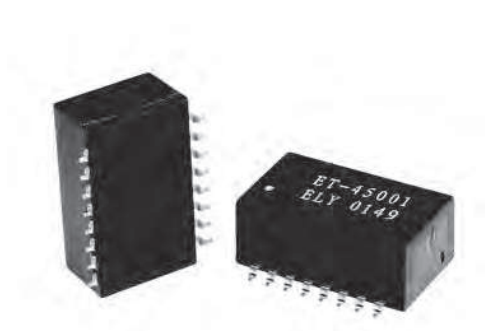
Electrical Specifications at 25°C

Part Number	Turns Ratio (±2%)	Primary Inductance (mHy min)	Cw/w (pF max)	Schematic	Matched to
MGT-44100	1:2CT	7.5	130	A	EXAR XR6164
MGT-44101	1CT:1	10.0	130	B	PM1 LIU-01



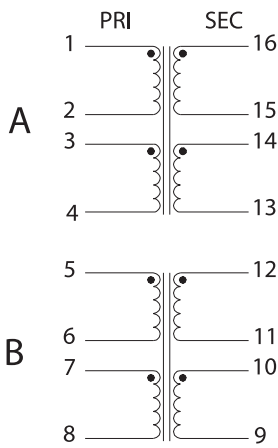
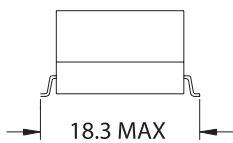
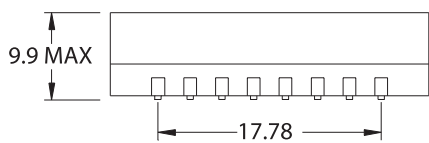
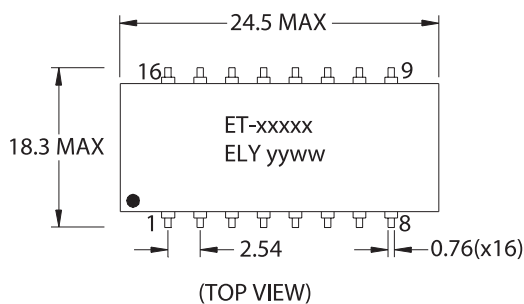
MGT-45000 SERIES

ISDN So-Interface Transformers
Surface Mount, Dual, 2000 Vrms



- 2 KVRms isolation voltage
- Excellent Longitudinal Balance
- Tape and Reel, Tray and Tube packaging options

Mechanical Dimensions:



UNIT:mm

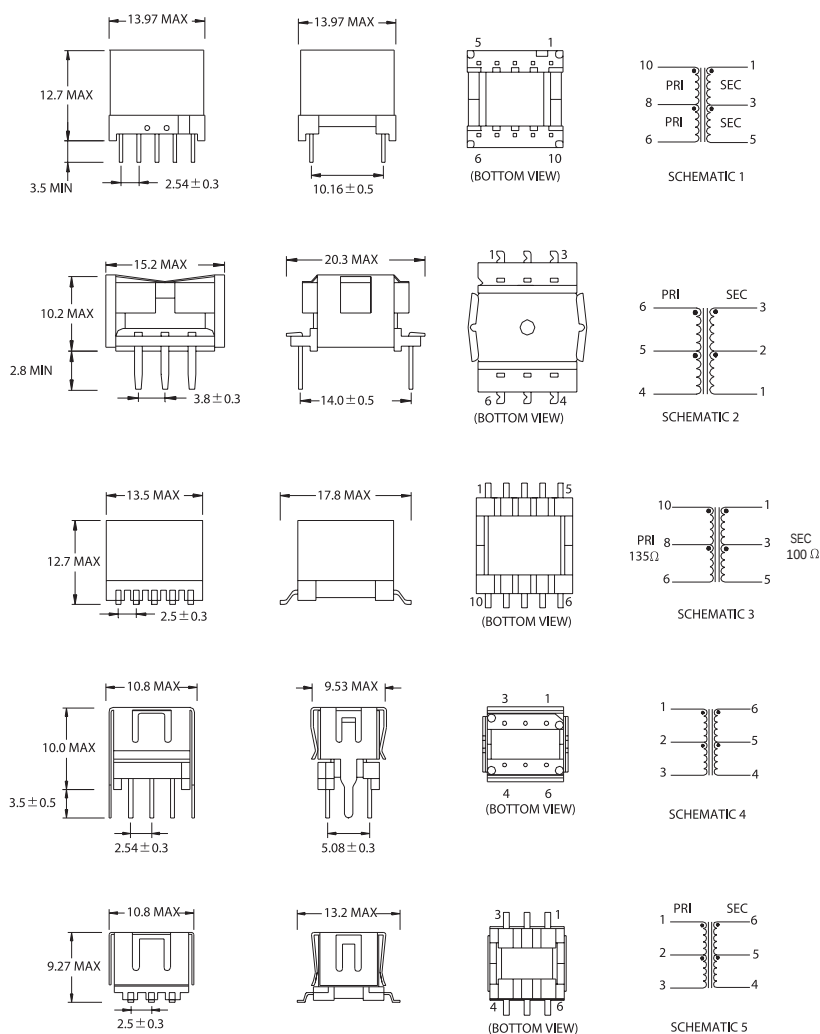
Electrical Specifications at 25°C

Part Number	Turns Ratio (±2%)		OCL Pri (mHy min) A and B	LL Sec (μHy max)		Cw/w (pF max) A and B	CD pri (pF max)		DCR Pri 20°C (Ω ±25%)		DCR Sec 20°C (Ω ±25%)		ΔIdc (mA max)
	A	B		A	B		A	B	A	B	A	B	
MGT-45001	1:1	1:2	22	5	15	100	42	80	2.4	2.3	2.4	4.0	1
MGT-45002	1:1	1:1	22	5	5	100	42	42	2.4	2.4	2.4	2.4	1
MGT-45003	1:1.8	1:1.8	22	15	15	100	140	140	2.5	2.5	4.2	4.2	1
MGT-45004	1:2	1:2	22	15	15	100	80	80	2.5	2.5	4.3	4.3	1
MGT-45005	1:2.5	1:2.5	22	8-40	8-40	100	110	110	2.5	2.5	5.8	5.8	1
MGT-45006	1:2	1:2	22	11	11	100	180	180	2.4	2.4	4.4	4.4	1



DDS Pulse Transformers

Mechanical Dimensions:



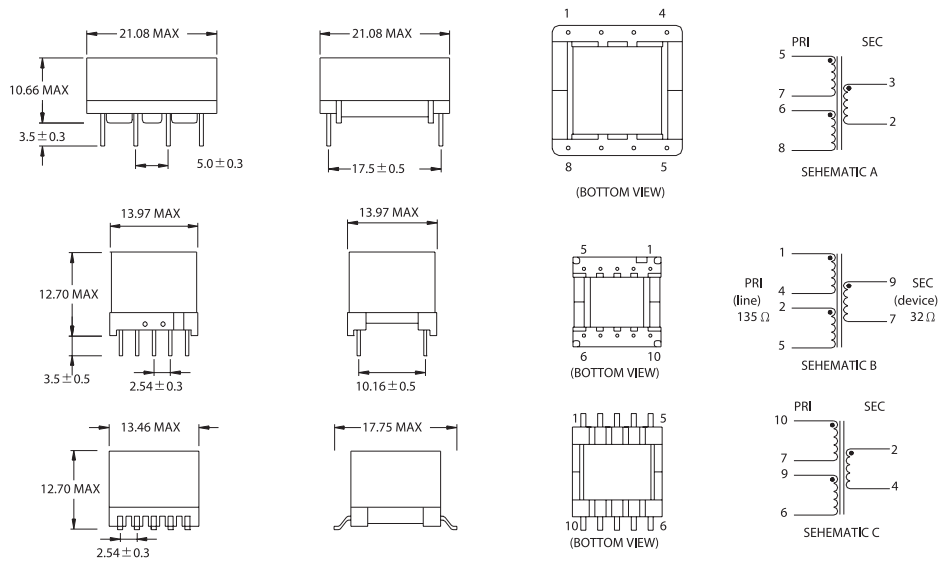
UNIT:mm

Specifications	MGT-46001	MGT-46002	MGT-46003	MGT-46004	MGT-46005	MGT-46006	MGT-46007	Unit
Reflects on PRI =	135	135	135	135	135	135	135	ohms
Reflects on SEC =	100	100	100	100	100	100	100	ohms
Longitudinal Balance,200 Hz - 1 KHz,min.	60							
,1 KHz - 15 KHz,min.	40	40	40	40	40	40	40	dB
,15 KHz - 100 KHz,min		35	35	35	35	35	35	
D.C.Resistance,20°C,PRI, ± 10%	16.0-19.5	9.28	9.28	5.12	5.10	2.64	2.64	ohms
,SEC, ± 10%	16.0-19.5	9.28	9.28	6.00	6.00	5.37	5.37	
Insertion Loss,10 KHz	1.25 / ± 0.25	1.0 max	1.0 max	-----	-----	-----	-----	dB
Return Loss,100 Hz - 100 KHz	15 typ.	15 typ.	15 typ.	-----	-----	-----	-----	dB
,1 KHz	32 typ.	32 typ.		-----	-----	-----	-----	
Dielectric Test PRI-SEC	1250	1875	1875	1250	1250	1875	1875	VAC
Turns Ratio (PRI:SEC), ± 2%	1 : 1	1 : 1	1 : 1	1 : 1	1 : 1	1 : 1	1 : 1	-----
Inductance,1 KHz, 1.0 V,min.	200	200	200	40	40	40	40	mHy
Leakage Inductance,10 KHz,0.5 V,max	22 - 43	60	60	40	40	40	40	uHy
Interwinding Capacitance,10 KHz	45 ref.	-----	-----	-----	-----	-----	-----	pF
Frequency Response,100Hz - 112 KHz	± 1.0			-----	-----	-----	-----	dB
200Hz - 112 KHz		± 1.0	± 1.0					
Schematic	2	1	3	4	5	3	1	-----

MGT-47000 SERIES

HDSL Pulse Transformers

Mechanical Dimensions:

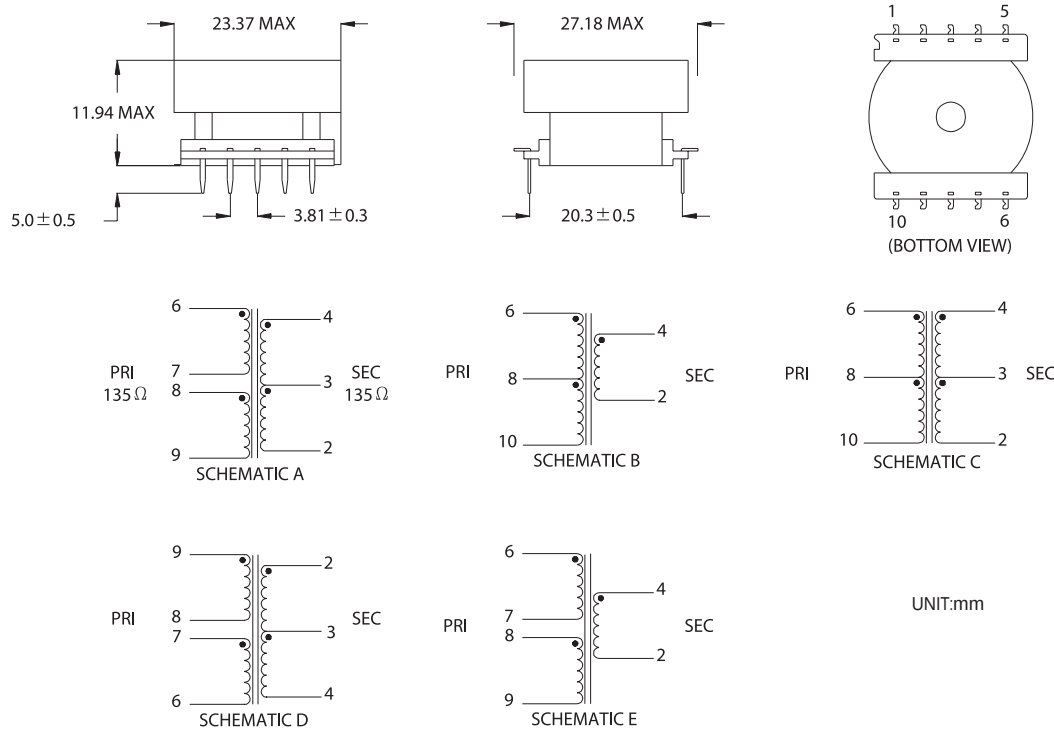


Specifications	MGT-47001	MGT-47002	MGT-47003	MGT-47004	MGT-47005	MGT-47006	MGT-47007	MGT-47008	Unit
Reflects on PRI =	135	135	135	135	135	135	135	135	ohms
Reflects on SEC =	25.5	32	32	32	32	32	32	26	ohms
D.C.Resistance,20°C,PRI,max.	1.0	3.5	2.5	2.5	2.5	4.0	2.5	1.6 ± 10%	ohms
,SEC,max	0.5	2.2	1.0	1.0	1.0	2.3	1.0	0.67 ± 10%	ohms
Insertion Loss at 40 KHz		0.43 max	0.5 max		0.5 max	0.5 max	0.5 max		
100 KHz	0.3 max							0.4 max	dB
200 KHz				0.4 max					
Return Loss at 9 K to 40 KHz		17 min.				16 min.			
20 K to 80 KHz									
20 K to 110 KHz					17 min.		17 min.	18 min.	dB
33 K to 110 KHz									
36 K to 600 KHz	16 min.			20 min.					
40 K to 200 KHz			16.5 min.						
40 K to 300 KHz									
Dielectric Test PRI-SEC	1500	1500	1500	1500	1500	1500	1500	1500	V AC
Direct Current PRI, maximum	60	100	160	160	60	60	60	60	mA DC
Turns Ratio (PRI:SEC), ±2%	2.3 : 1	2 : 1	2 : 1	2 : 1	2 : 1	2 : 1	2 : 1	2.3 : 1	----
Longitudinal Balance,36 to 300 KHz	50 min.								
40 K to 200 KHz				53 min.					dB
500 K to 150 KHz		53 min.			53 min.	53 min.	53 min.		
500 K to 300 KHz									
Total Harmoric Dist.,5 KHz,0 dBm	-60 max.								
20 KHz,4.5 Vp-p		-70 max			-70 max	-70 max	-70 max		dB
40 KHz,+14dBm			-70 max	-70 max					
Inductance,1 KHz,1.0 V	3.2 - 4.0							3.7 ± 6%	mHy
10 KHz,1.0 V		5 ± 5 %		3 ± 6 %	3.5 ± 5%	8 ± 6 %	3.5 ± 5%		
10 KHz,0.1 V			2 ± 6 %						
Frequency Response,20 K to 80 KHz	----	± 0.07		----		± 0.1			
20 K to 110 KHz								± 0.1	dB
33 K to 110 KHz					± 0.1		± 0.1		
40 K to 300 KHz			± 0.1						
Leakage Inductance,100 KHz,0.1 V	----	----	11 max.	----	----	----	----	30 max.	uHy
Schematic	A	B	B	B	B	B	C	B	----

MGT-47050 SERIES

HDSL Pulse Transformers

Mechanical Dimensions:

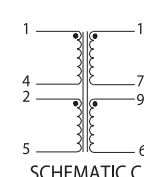
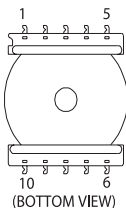
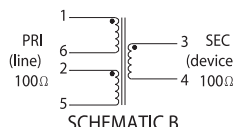
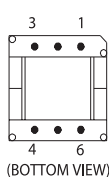
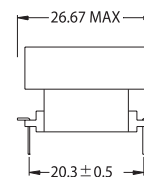
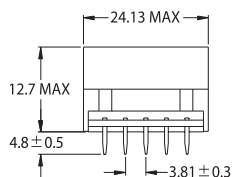
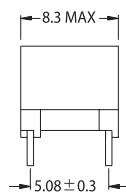
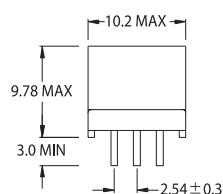
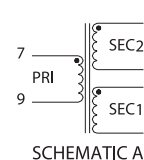
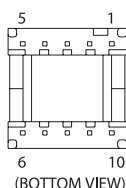
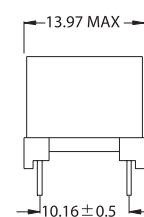
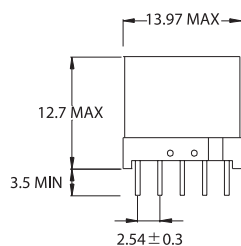
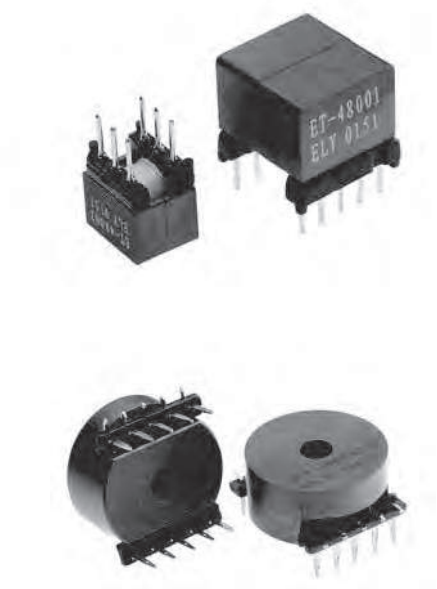


SPECIFICATIONS	MGT-47051	MGT-47052	MGT-47053	MGT-47054	MGT-47055	MGT-47056	MGT-47057	MGT-47058	MGT-47059	Unit
Reflects on PRI =	135	135	135	135	135	135	135	135	135	ohms
Reflects on SEC =	135	135	40.2	40.2	31	31	32	32	42	ohms
D.C.Resistance,20°C, ± 10%,PRI	2.44	2.24	3.0 max.	2.35 max.	2.56	1.46	2.60	2.0	4.20	ohms
,SEC	2.45	2.25	2.3 max.	1.00 max.	0.85	0.48	1.30	1.0	2.35	ohms
Frequency Response,20 K - 80 KHz			----	----			± 0.1		----	dB
,33 K - 110 KHz								± 0.1		
,40 K - 200 KHz					± 0.1					
,40 K - 300 KHz	± 0.1	± 0.1				± 0.1				
Insertion Loss, 40 KHz			----	----			0.40 max.	0.40 max.	-----	dB
100 KHz	0.25 max	0.40 max								
200 KHz					0.40 max.					
,300 KHz						0.40 max.				
Return Loss,20 K - 80MHz			----	----			17.0 min.		-----	dB
,33 K -110 KHz								17.0 min.		
,40 K - 200 KHz					20 min.					
,40 K - 300 KHz	20 Ref	16 Ref				16.5 min.				
Dielectric Test PRI-SEC	1500	1500	1500	1500	1500	1500	1500	1500	1500	V AC
Turns Ratio (PRI:SEC), ± 2%	1 : 1	1 : 1	1.8 : 1	1.8 : 1	2 : 1	2 : 1	2 : 1	2 : 1	1.8:1	-----
Longitudinal Balance,200 KHz	53 min									dB
,300 KHz		50 min.								
,20 K - 80 KHz							53 min			
,33 K - 110 KHz								53 min		
,40 K - 200 KHz					53 min.				50 min.	
,40 K - 300 KHz			50 min.	50 min.		53 min.				
Total Harmonic Dist.,100 KHz,5 Vp-p	-70 typ	-70 typ	-70 max	-70 max	-70 max.	-70 max	-70 max	-70 max	-70 max	dB
,5 KHz									-70 max	
Inductance,1 KHz,1.0 V	3.0±3%	2.0±3%	2.92±5%	1.94±5%	3.0±6%	2.0±6%	5.0±5%	3.5±5%	3.6±10%	mHy
Leakage Inductance,100 KHz,100 mA AC	20 max.	20 max.	-----	-----	7.5 max.	8.0 max.	-----	-----	17.5 max	uHy
Schematic	A	A	C	B	D	D	E	E	B	-----

MGT-48000 SERIES

ADSL Pulse Transformers

Mechanical Dimensions:



UNIT:mm

Specifications	MGT-48001	MGT-48002	MGT-48003	MGT-48004	Unit
D.C. Resistance, 20°C, PRI, SEC	2.2 max 1.8 max	2.6 ± 10% 2.25 ± 10%	2.4 max. 0.32 max.	1.32 ± 10% 1.12 ± 10%	ohms
Frequency Response, 40 K to 1.1 MHz, 30 K to 2 MHz, 600 K to 2.5 MHz	± 1.0	----- ± 1.0	-----	3.0 max.	dB
Insertion Loss, 50 KHz, 20°C, max, 772 KHz	1.5	-----	-----	0.5 max.	dB
Dielectric Test PRI-SEC	1500	1250	2000	1875	VAC
Turns Ratio (PRI:SEC), ± 1%	1 : 1	1 : 1	1 : 1	1 : 1	- - - -
Longitudinal Balance, 20 K to 1.1 MHz, 20 K to 1 MHz	50 min.	40 min.	-----	55 min.	dB
Total Harmonic Dist., 20 KHz, 2 V _{rm} , 100 KHz, 14.4 V _{p-p}	-100 typ.	-----	-----	-85 min.	dB
Inductance, 1 KHz, 1.0 V, 10 KHz, 100 mV	368 ± 5%	25.4 mHy min	440 ± 5 %	407.5 ± 5%	μ Hy
Leakage Inductance, 10 KHz, 100 mA AC, 100 KHz, 0.1 V _{rms}	11 max.	-----	15 max.	10 max.	μ Hy
Return Loss, 30 K - 1.1 MHz	- - - -	10 min.	- - - -	- - - -	dB
Schematic	A	B	C	A	-----

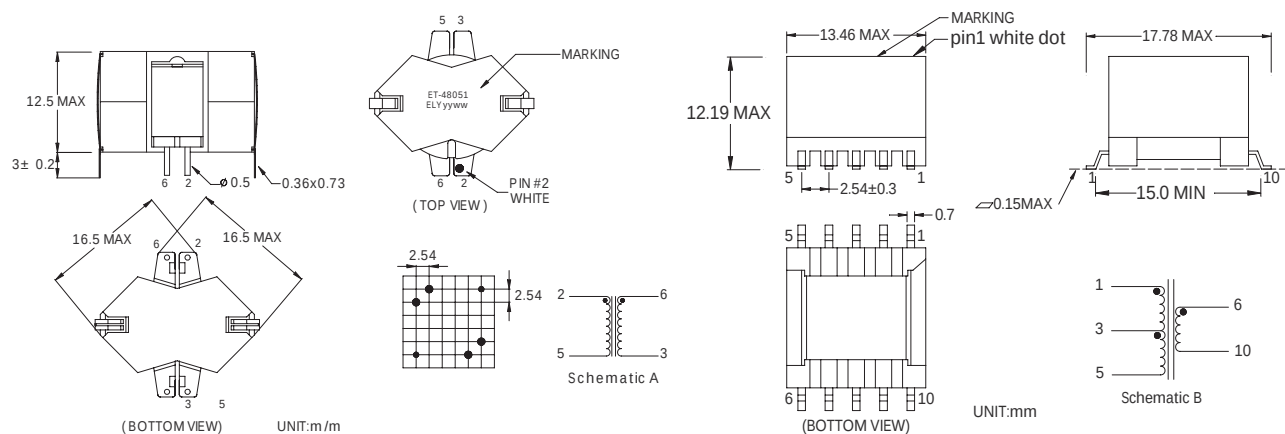


MGT-48050 SERIES

ADSL Line Transformers



- For use with Alcatel's Dynamite ADSL chipset
- For Central Office and Customer Premise Applications
- Operating Temperature Range : -40°C ~ +85°C



Specifications	MGT-48051	MGT-48052	Unit
Alcatel Part Number ★	1AB 06764 0025		
Inductance, 10 KHz, 0.1 V (0 A)	20 ± 4 %	6.5±5%	mHy
(100 mA DC , 25)	19 min.		
(100 mA DC , 85)	18 min.		
(160 mA DC , 25)		6.5±10%	
Leakage Inductance, 100 KHz, 0.1 V	25 max.	45 max.	μHy
Interwinding Capacitance, 100 KHz, 0.1 V	900 max.	85 max.	pF
D.C. Resistance, 20, PRI	4.0 max.	5.9±8%	ohms
, SEC	4.0 max.	5.9±8%	
Turns Ratio (PRI:SEC), ±1% 10 KHz, 1.0 V	1 : 1	1 : 1	----
Dielectric Test PRI-SEC	600	1000	VAC
Longitudinal Balance, 30 KHz	----	65 min.	----
, 1.1 MHz	----	45 min.	
Schematic	A	B	----

★ Formerly Alcatel part number OEX 00486 2100

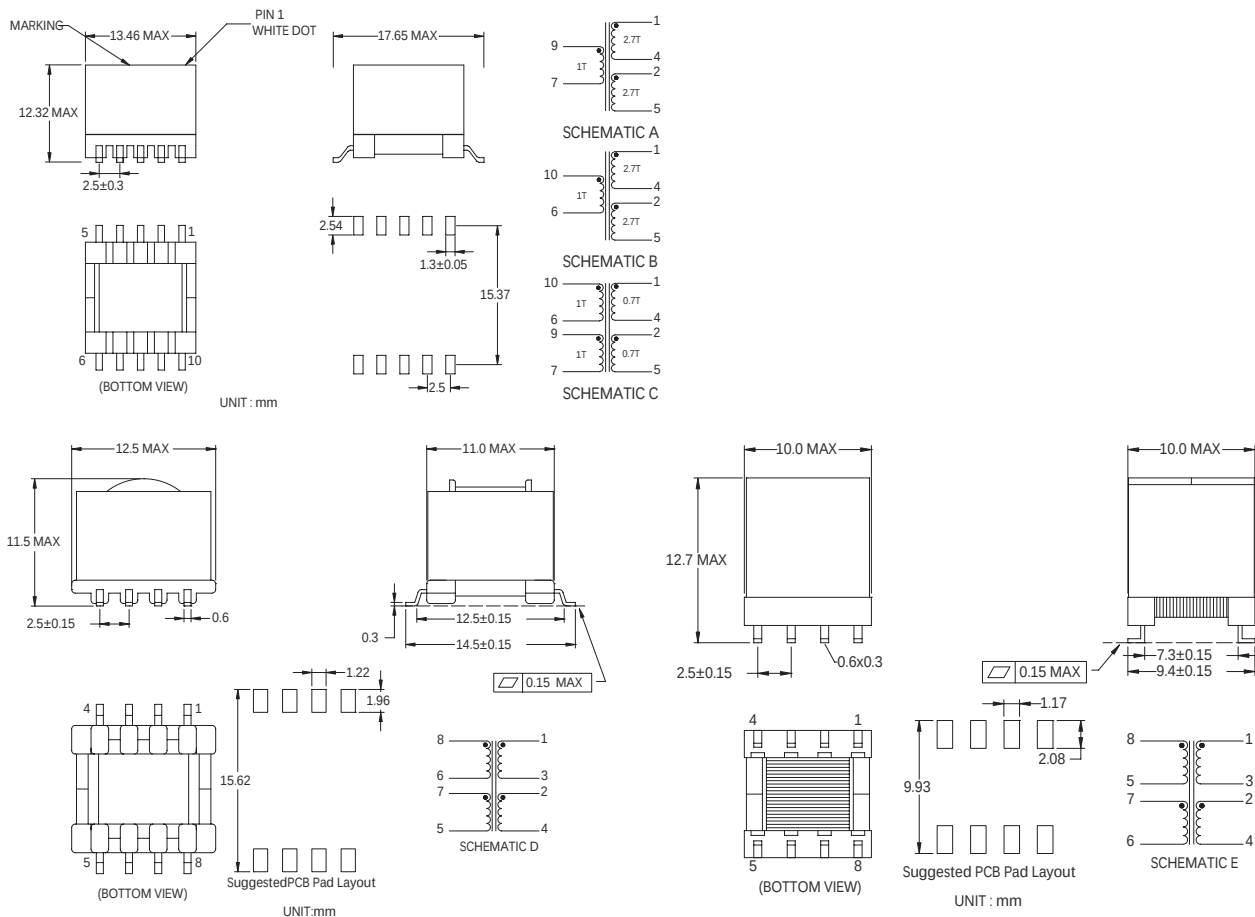


MGT-49000 SERIES

SHDSL Pulse Transformers



- Matched to Globespan Virata for CO or CP selectable SHDSL chipset-G2237
- Designed to meet IEC60950 supplementary insulation requirements at 250V working voltage
- Operating Temperature Range :-40°C ~ +85°C



Specifications	MGT-49001	MGT-49002	MGT-49002A	MGT-49003	MGT-49003A	Unit
Reflects on PRI =	135	135	135	135	135	ohms
Reflects on SEC =	4.6	4.6	4.6	275.5	275.5	ohms
D.C.Resistance,20°C,PRI,max.	4.2	4.0	5.2	9.0	9.0	ohms
,SEC,max.	0.35	0.52	0.68	22.0	22.0	ohms
Insertion Loss at 100 KHz	0.52 max	0.70 max.	0.75 max.	1.5 max.	1.5 max.	dB
Return Loss at 20 KHz	14 min.	14 min.	14 min.			dB
40 K to 500 KHz	16 min.	15 min.	15 min.			dB
Dielectric Test PRI-SEC	1500	1500	1500	1500	1500	V AC
Direct Current PRI, maximum	100	20	20	20	20	mA DC
Turns Ratio (PRI:SEC),±2%	5.4 : 1	5.4 : 1	5.4 : 1	0.7 : 1	0.7 : 1	-----
Longitudinal Balance,20 K to 500 KHz	55 min.	55 min.	55 min.	45 min.	45 min.	dB
Total Harmonic Dist.,5 KHz,4 Vrms	-79 max.	-78 max.	-78 max.			dB
,2Vrms				-82 max.	-82 max.	dB
Inductance,10 KHz,0.1 Vrms	2.82 – 3.18	3.00 – 3.40	3.00 – 3.40	3.00 – 3.50	3.00 – 3.50	mHy
Interwinding Capacitance,100 KHz,0.1 Vrms	160.0 max.	150.0 max.	150.0 max.	100.0 max.	100.0 max.	pF
Leakage Inductance,100 KHz,0.1 Vrms	15.0 max.	16.0 max.	20.0 max.	15.0 max.	15.0 max.	uHy
Schematic	A★	D	B	E	C	-----

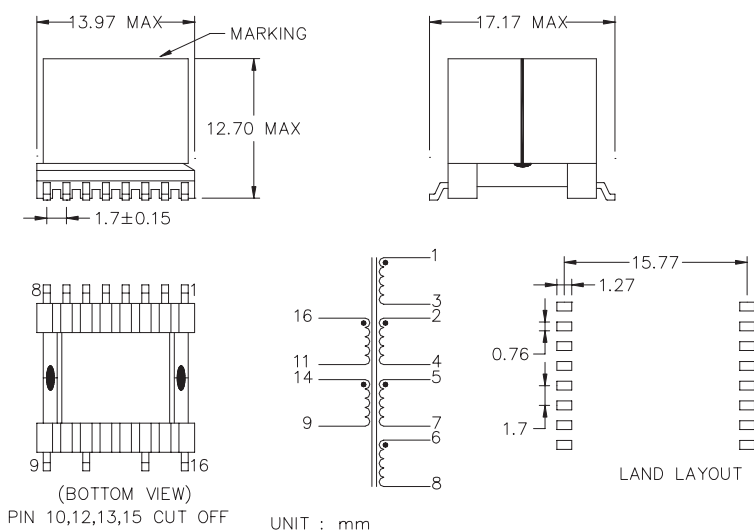
★UL 60950 Construction E211939

MGT-49050_{SERIES}

ADSL Line Transformers



- Matched to Globespan Virata CPE Café ADSL chipset-DMT Annex A/C
- Designed to meet IEC60950 supplementary insulation requirements at 250V working voltage
- Operating Temperature Range : -40°C ~ +85°C



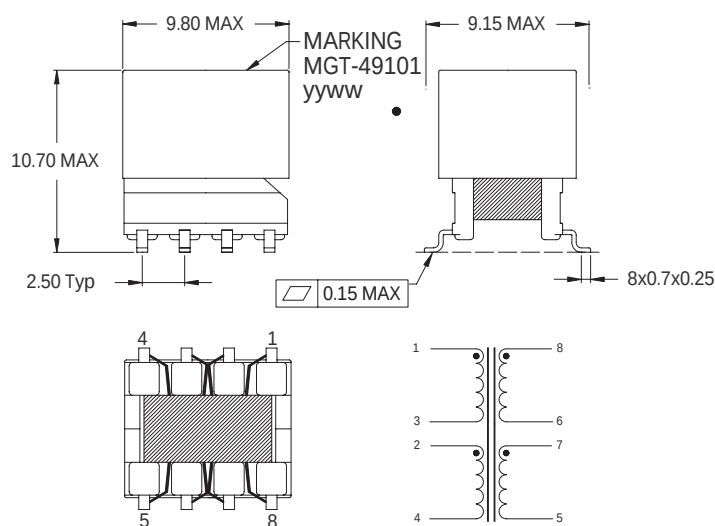
Specifications	MGT-49051		Unit
Reflects on PRI =	100		ohms
Reflects on TX =	5.6		ohms
Reflects on RX =	300		ohms
D.C.Resistance,20°C,PRI,max. TX,max. RX max.	5.0 nom. 1.0 nom. 2.0 nom.		ohms
Insertion Loss at 30 KHz to 150 KHz (TX) at 30 KHz to 1.1 MHz (RX)	0.5 nom		dB
Dielectric Test PRI-TX & RX (0.5mA)	1875		V AC
Turns Ratio (TX:RX:PRI),±2%	1 : 2 : 4		-----
Longitudinal Balance,30 KHz to 1104 KHz (RX)	40 min.		dB
Total Harmonic Dist.,100 KHz, 15 Vp-p	-90 max.		dB
Inductance,100 KHz,0.1 Vrms	660 – 742		uHy
Interwinding Capacitance,100 KHz,0.1 Vrms	25 nom.(Pri:Tx) 25 nom.(Pri:Rx) 15 nom.(TX:Rx)		pF
Leakage Inductance,100 KHz,0.1 Vrms	25 nom. / 32 max.(PRI) 7 nom.(Rx) 3 nom.(Tx)		uHy
Schematic	A		-----

MGT-49100 SERIES

VDSL Pulse Transformers



- Matched to Conexant Co & CPE for POTS Population chipset-Accelity, Accelity | , II
- Designed to meet IEC60950 supplementary insulation requirements at 250V working voltage
- Operating Temperature Range : -40°C ~ +85°C



(BOTTOM VIEW) UNIT: mm SCHEMATIC A

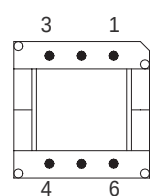
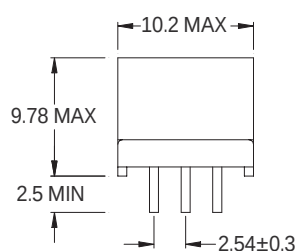
Specifications	MGT-49101			Unit
Reflects on PRI =	100			ohms
Reflects on SEC =	26			ohms
D.C.Resistance,20°C,PRI,max. ,SEC,max.	1.0 0.5			ohms
Insertion Loss at 1 MHz reference	0.35 max			dB
Dielectric Test PRI-SEC	1500			V AC
Direct Current PRI, maximum	20			mA DC
Turns Ratio (PRI:SEC),±2%	2 : 1			-----
Longitudinal Balance,100 KHz to 12 MHz	45 min.			dB
Total Harmonic Dist.,100 KHz,3 Vrms	-80 max.			dB
Inductance,10 KHz,0.1 Vrms	800 ± 10%			uHy
Interwinding Capacitance,100 KHz,0.1 Vrms	100 max.			pF
Leakage Inductance,100 KHz,0.1 Vrms	1.5 max.			uHy
Schematic	A			-----

MGT-49150 SERIES

VDSL Filters Splitter Inductors

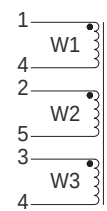
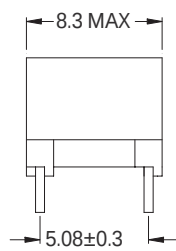


- Whether for VDSL over POTS Applications
- Good Attenuation Characteristics
- Operating Temperature Range : -30°C ~ +70°C

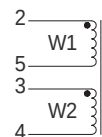


(BOTTOM VIEW)

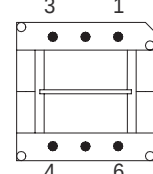
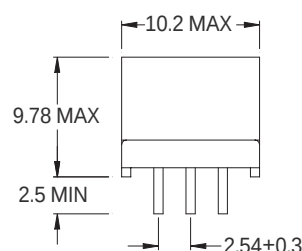
UNIT : mm



SCHEMATIC A

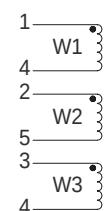
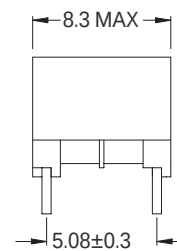


SCHEMATIC B



(BOTTOM VIEW)

UNIT : mm



SCHEMATIC C

Specifications	MGT-49151	MGT-49152	MGT-49153	MGT-49154	Unit
Reflects on	135	135	135	135	ohms
Inductance, 10 KHz, 50 mVrms (W1) (W2) (W3)	480 ± 4% 86.7 ± 4% 86.7 ± 4%	580 ± 4% 126 ± 4% 126 ± 4%	105 ± 4% 103 ± 4%	504 ± 4% 95 ± 4% 92 ± 4%	uHy
D.C. Resistance, 20°C, W1, max. , W2+W3, max. , W1+W2, max.	2.3 2.8	3.0 3.3	1.6	2.6 2.2	ohms
Dielectric Test, W2 - W3, 50 Hz, 1 sec	500	500	500	500	V AC
Direct Current PRI, maximum	80	80	80	80	mA DC
Turns Ratio (PRI:SEC), ±2%	2.38 : 1 : 1	2.17 : 1 : 1	1.025 : 1	1.03 : 2.29 : 1	----
Total Harmonic Dist., 50 KHz, 3 Vrms	-80 max.	-80 max.	-80 max.	-80 max.	dB
Schematic	A	A	B	C	----

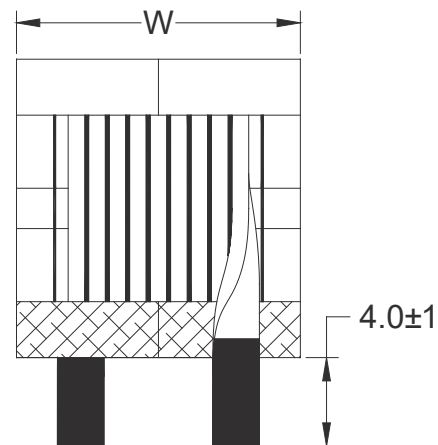
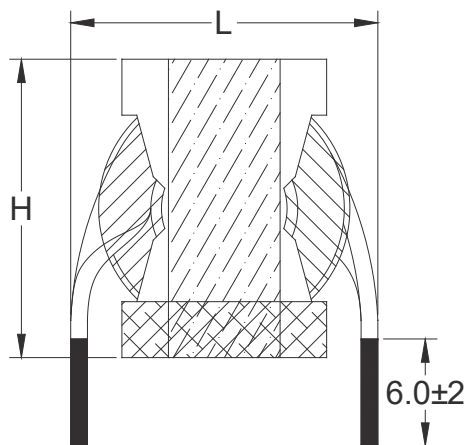
MTF-200X_{SERIES}



- Designed for Flat Helix Winding Coil high current, high volt*time applications
- Lowest DCR, lower loss, reduce size, high efficiency, less Temperature
- Winding to core isolation is 500 Vrms

MTF-2001-150

Inductance Value
Dimensions Size
Flat Wire

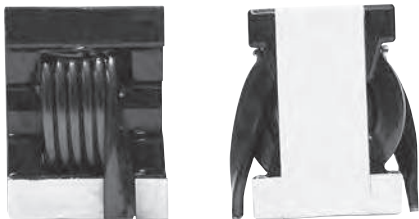


TypeSize	2001	2002
L(mm)	21.0	21.0
W(mm)	17.5	21.5
H(mm)	23.0	23.0

Part No.	Inductance *1 (μH)	Saturation current (A)				DCR (mΩ)max. @20°C	Mounting Holes Pattern (mm)
		25°C		130°C			
		L(μH) *2	Isat (ADC)	L(μH)	Isat (ADC)		
MTF-2001-150	18 ± 20%	15.3	11	11.7	11	5.0	1.5 x 4.5
MTF-2001-100	12 ± 20%	9.8	14	7.1	12.9	2.9	1.7 x 4.5
MTF-2001-5R5	7.5 ± 20%	5.5	18.5	4.2	19	1.8	1.9 x 4.5
MTF-2001-3R8	6.0± 20%	3.8	22	2.5	17.9	1.3	2.2 x 4.5
MTF-2002-220	27 ± 20%	22	10	19	9.7	6.9	1.5 x 4.5
MTF-2002-140	17 ± 20%	13.5	12.7	10.8	13.2	4.0	1.7 x 4.5
MTF-2002-9R0	12± 20%	9.0	15.5	7.8	15.5	2.7	1.9 x 4.5
MTF-2002-5R5	8.0 ± 20%	5.5	20	4.7	20	1.8	2.2 x 4.5

1. Inductance measuring condition: at 100 KHz, 0.1 Vrms
2. The saturation current (Isat) : indicates the value of D.C when the inductance become about 20%
3. Operating temperature range -25°C to +130°C (Including coil's self temperature rise)
4. Storage temperature range -25°C to +130°C.
5. The temp. rise : The value of DC current when temp. rise is Δt 40 , (Ta =25 degree)

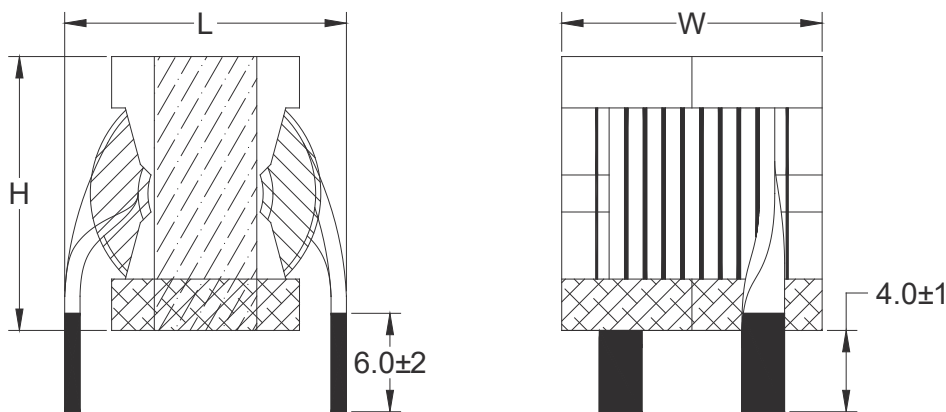
MTF-260X SERIES



- Designed for Flat Helix Winding Coil high current, high volt*time applications
- Lowest DCR, lower loss, reduce size, high efficiency, less Temperature
- Winding to core isolation is 500 Vrms

MTF-2601-310

Inductance Value
Dimensions Size
Flat Wire



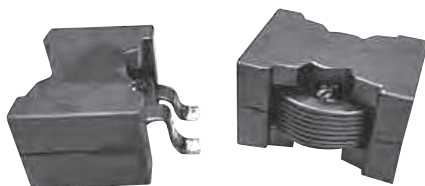
Type Size	2601	2602
L(mm)Max	27.0	27.0
W(mm)Typ	21.5	26.0
H(mm)Max	28.5	28.5

Part No.	Inductance *1 (μH)	Saturation current (A)				DCR (mΩ) max. @20°C	Mounting Holes Pattern (mm)
		25°C		130°C			
		L(μH) *2	Isat (ADC)	L(μH)	Isat (ADC)		
MTF-2601-310	35 ± 20%	30.9	12	23.3	13.6	5.9	1.4 x 5.5
MTF-2601-140	17.2 ± 20%	13.7	18	9.9	20.7	2.8	1.7 x 5.5
MTF-2601-7R7	10.5 ± 20%	7.7	24	5.6	24.7	1.5	2.2 x 5.5
MTF-2601-3R4	6.0 ± 20%	3.4	36	2.3	34	0.8	2.7 x 5.5
MTF-2602-480	48 ± 20%	47.5	11	33.4	12.7	8.3	1.4 x 5.5
MTF-2602-240	25.7 ± 20%	23.7	15.5	17.1	18.3	4.0	1.7 x 5.5
MTF-2602-110	12.7 ± 20%	10.5	23.5	7.6	25.6	1.9	2.2 x 5.5
MTF-2602-5R9	8.3 ± 20%	5.9	31	4.8	31.8	1.1	2.7 x 5.5

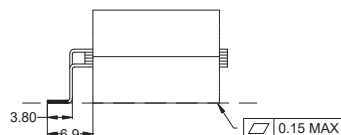
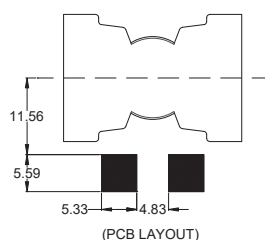
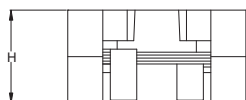
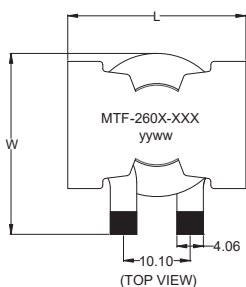
1. Inductance measuring condition: at 100 KHz, 0.1 Vrms
2. The saturation current (Isat) : indicates the value of D.C when the inductance become about 20%
3. Operating temperature range -25°C to +130°C. (Including coil's self temperature rise)
4. Storage temperature range -25°C to +130°C.
- 5 The temp. rise : The value of DC current when temp. rise is Δt 40 , (Ta =25 degree)



MTF-260X SMT_{SERIES}



- Designed for Flat Helix Winding Coil high current, high volt*time applications
- Lowest DCR, lower loss, reduce size, high efficiency, less Temperature
- Winding to core isolation is 500 Vrms



MTF-260X-XXX

Inductance Value
Dimensions Size
Flat Wire

Type Size	2603	2604	2605
L(mm)Max	28.0	28.0	28.0
W(mm)Typ	28.0	28.0	28.0
H(mm)Max	14.3	14.3	16.7

Part Number	Inductance ¹ (μ H)	DCR (m Ω) max.	SRF typ (MHz)	I sat (A) ₃		
				10% drop	20% drop	30% drop
MTF-2603-1R5	1.5	1.62	60	80	>100	>100
MTF-2603-2R2	2.2	1.62	50	65.0	75.0	80
MTF-2603-3R3	3.3	1.62	40	48.0	54.0	57.0
MTF-2603-4R7	4.7	1.62	30	33.0	36.9	39.0
MTF-2603-6R8	6.8	1.62	25	22.0	26.0	27.8
MTF-2603-100	10	1.62	20	13.0	16.2	17.6
MTF-2603-150	15	1.62	15	7.5	9.8	11.0
MTF-2603-220	22	1.62	10	4.5	6.0	6.8
MTF-2603-330	33	1.62	7	2.0	2.6	3.3
MTF-2604-2R2	2.2	2.01	40	78	88	94
MTF-2604-3R3	3.3	2.01	30	62.0	66.9	68.4
MTF-2604-4R7	4.7	2.01	25	42.0	48.0	50.1
MTF-2604-6R8	6.8	2.01	20	30.0	34.5	36.2
MTF-2604-100	10	2.01	15	18.0	21.5	23.4
MTF-2604-150	15	2.01	12	11.5	14.0	15.2
MTF-2604-220	22	2.01	10	7.0	8.6	9.6
MTF-2604-330	33	2.01	18	4.0	5.1	5.9
MTF-2605-3R3	3.3	2.82	40	76.0	83	90
MTF-2605-4R7	4.7	2.82	30	59.0	61.2	62.4
MTF-2605-6R8	6.8	2.82	25	42.0	45.0	45.9
MTF-2605-100	10	2.82	20	28.0	31.2	32.1
MTF-2605-150	15	2.82	16	18.0	21.2	21.9
MTF-2605-220	22	2.82	15	12.0	14.0	15.0
MTF-2605-330	33	2.82	10	7.0	8.7	9.6

1. Inductance tested at 500 KHz, 0.1 Vrms

2. Inductance tolerance $\pm 10\%$

3. Dc current at which the inductance drops. the specified amount from its without current.

4. Operating temperature range -25°C to +100°C(including coils self temperature rise) .

5. Storage temperature range -25°C to +100°C.

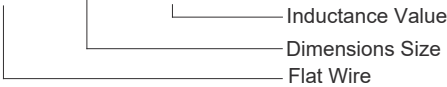
6. Electrical specifications at 25°C.

MTF-280X_{SERIES}

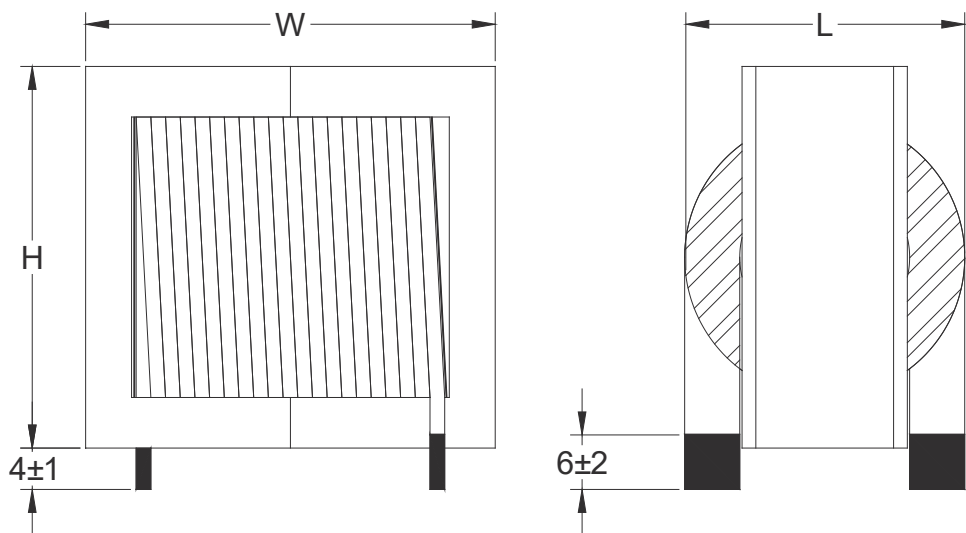


- Designed for Flat Helix Winding Coil high current, high volt*time applications
- Lowest DCR, lower loss, reduce size, high efficiency, less Temperature
- Winding to core isolation is 500 Vrms

MTF-2801-350



Mechanical Dimensions:

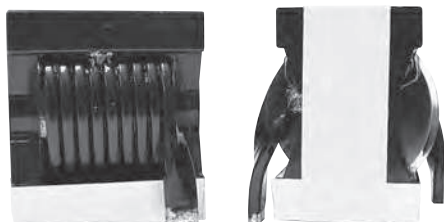


Size	L(mm)	W(mm)	H(mm)
	22	29	29.5

Part No.	Inductance *1 (μH)	Saturation current (A)				DCR (mΩ) max. @20°C	Mounting Holes Pattern (mm)
		25°C		130°C			
		L(μH) *2	Isat (ADC)	L(μH)	Isat (ADC)		
MTF-2801-350	34.5 ± 20%	34.5	12	24.4	13.2	9.0	1.4 x 5.5
MTF-2801-190	19.4 ± 20%	19.4	16	15.6	16.2	4.8	1.7 x 5.5
MTF-2801-8R6	8.6 ± 20%	8.6	24	6.5	24.5	2.2	2.2 x 5.5
MTF-2801-4R8	4.8 ± 20%	4.8	34	3.2	35	1.2	2.7 x 5.5

1. Inductance measuring condition: at 100 KHz, 0.1 Vrms
2. The saturation current (Isat) : indicates the value of D.C when the inductance become about 20%
3. Operating temperature range -25°C to +130°C. (Including coil's self temperature rise)
4. Storage temperature range -25°C to +130°C.
- 5 The temp. rise : The value of DC current when temp. rise is Δt 40 , (Ta =25 degree)

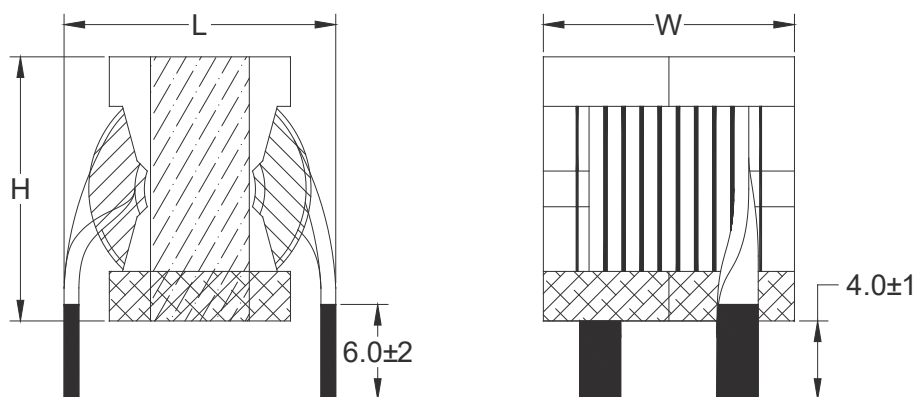
MTF-320X_{SERIES}



- Designed for Flat Helix Winding Coil high current, high volt*time applications
- Lowest DCR, lower loss, reduce size, high efficiency, less Temperature
- Winding to core isolation is 500 Vrms

MTF-3201-340

Inductance Value
Dimensions Size
Flat Wire

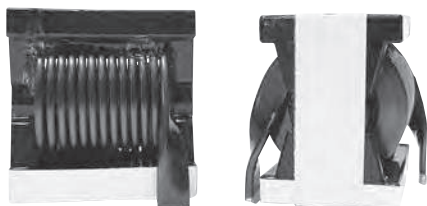


TypeSize	3201	3202	3203
L(mm)	32.0	32.0	32.0
W(mm)	21.7	26.6	31.5
H(mm)	34.0	34.0	34.0

Part No.	Inductance *1 (μH)	Saturation current (A)				DCR (mΩ)max. @20°C	Mounting Holes Pattern (mm)
		25°C		130°C			
		L(μH) *2	Isat (ADC)	L(μH)	Isat (ADC)		
MTF-3201-340	38 ± 20%	34.2	13	25.4	15.0	5.5	1.4 x 6.5
MTF-3201-150	19 ± 20%	15.2	19	11.1	23.7	2.7	1.7 x 6.5
MTF-3201-5R9	9.4 ± 20%	5.9	30	4.9	32.9	1.1	2.3 x 6.5
MTF-3201-3R8	7.2 ± 20%	3.8	38	3.0	41.8	0.7	2.7 x 6.5
MTF-3202-570	60 ± 20%	56.6	12	41.3	13.6	8.1	1.4 x 6.5
MTF-3202-300	34 ± 20%	29.5	16.5	22.8	17.1	4.2	1.7 x 6.5
MTF-3202-110	14.2± 20%	11.2	27	8.5	27.5	1.7	2.3 x 6.5
MTF-3202-6R3	9.1 ± 20%	6.3	35	5.0	37.6	1.1	2.7 x 6.5
MTF-3203-810	84 ± 20%	80.8	11	60.3	12.0	10.8	1.4 x 6.5
MTF-3203-410	42 ± 20%	40.5	15.5	28.7	16.3	5.4	1.7 x 6.5
MTF-3203-170	21± 20%	17	24	13.3	22.3	2.2	2.3 x 6.5
MTF-3203-9R0	12 ± 20%	9.0	30	7.3	34.6	1.4	2.7 x 6.5

1. Inductance measuring condition: at 100 KHz, 0.1 Vrms
2. The saturation current (Isat) : indicates the value of D.C when the inductance become about 20%
3. Operating temperature range -25°C to +130°C (Including coil's self temperature rise)
4. Storage temperature range -25°C to +130°C.
5. The temp. rise : The value of DC current when temp. rise is Δt 40 , (Ta =25 degree)

MTF-350X_{SERIES}

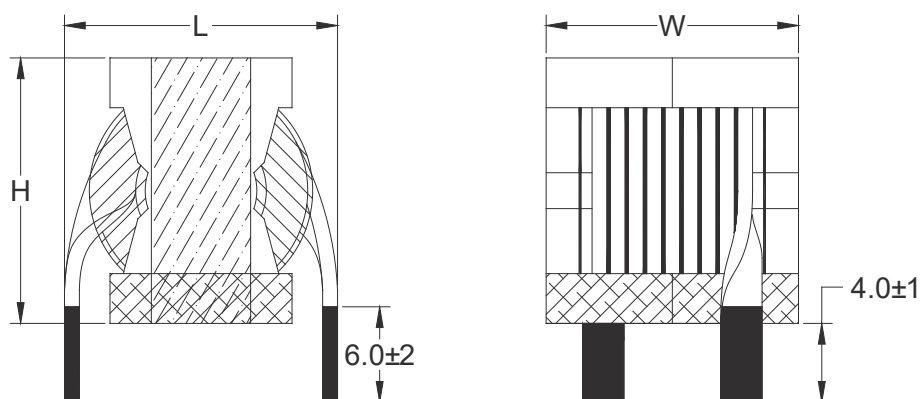


- Designed for Flat Helix Winding Coil high current, high volt*time applications
- Lowest DCR, lower loss, reduce size, high efficiency, less Temperature
- Winding to core isolation is 500 Vrms

MTF-3501-820

Inductance Value
Dimensions Size
Flat Wire

Mechanical Dimensions:

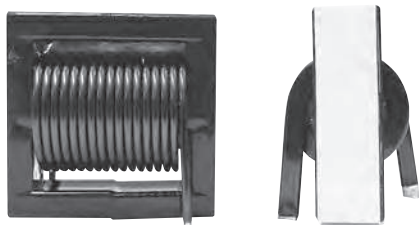


Size	L(mm)	W(mm)	H(mm)
	36	36.5	37

Part No.	Inductance *1 (μH)	Saturation current (A)				DCR (mΩ) max. @20°C	Mounting Holes Pattern (mm)
		25°C		130°C			
		L(μH) *2	Isat (ADC)	L(μH)	Isat (ADC)		
MTF-3501-820	82.1 ± 20%	82.1	13.5	65.2	12.7	9.2	1.5 x 7.5
MTF-3501-530	52.6 ± 20%	52.6	17	40.8	16.5	5.9	1.7 x 7.5
MTF-3501-190	19.2 ± 20%	19.2	28	15.3	27.5	2.5	2.3 x 7.5
MTF-3501-130	13 ± 20%	13	33	9.7	31.7	1.6	2.7 x 7.5
MTF-3501-6R4	6.4 ± 20%	6.4	47	5.1	46.8	1.0	3.3 x 7.5

1. Inductance measuring condition: at 100 KHz, 0.1 Vrms
2. The saturation current (Isat) : indicates the value of D.C when the inductance become about 20%
3. Operating temperature range -25°C to +130°C. (Including coil's self temperature rise)
4. Storage temperature range -25°C to +130°C.
- 5 The temp. rise : The value of DC current when temp. rise is Δt 40 , (Ta =25 degree)

MTF-390X_{SERIES}

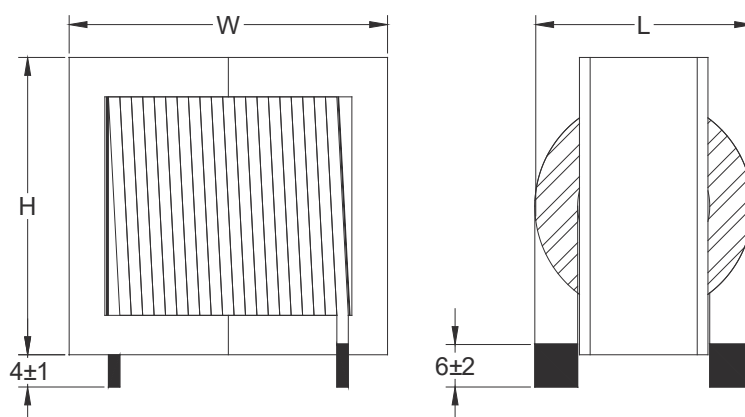


- Designed for Flat Helix Winding Coil high current, high volt*time applications
- Lowest DCR, lower loss, reduce size, high efficiency, less Temperature
- Winding to core isolation is 500 Vrms

MTF-3901-650



Mechanical Dimensions:



Size	L(mm)	W(mm)	H(mm)
	23.5	40	40

Part No.	Inductance *1 (μH)	Saturation current (A)				DCR (mΩ)max. @20°C	Mounting Holes Pattern (mm)
		25°C		130°C			
		L(μH) *2	Isat (ADC)	L(μH)	Isat (ADC)		
MTF-3901-650	72 ± 20%	65	13	54.4	15.5	9.5	1.4 x 5.5
MTF-3901-400	45 ± 20%	40	18	31.2	16.6	5.2	1.7 x 5.5
MTF-3901-150	19 ± 20%	15	27	13.1	28.4	2.2	2.2 x 5.5
MTF-3901-8R0	12 ± 20%	8	39	6.3	29.5	1.3	2.7 x 5.5

1. Inductance measuring condition: at 100 KHz, 0.1 Vrms
2. The saturation current (Isat) : indicates the value of D.C when the inductance become about 20%
3. Operating temperature range -25°C to +130°C (Including coil's self temperature rise)
4. Storage temperature range -25°C to +130°C.
- 5 The temp. rise : The value of DC current when temp. rise is Δt 40 , (Ta =25 degree)

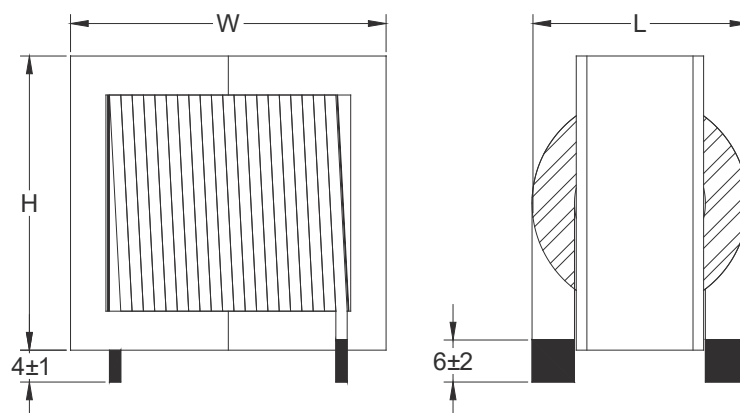
MTF-420X_{SERIES}



- Designed for Flat Helix Winding Coil high current, high volt*time applications
- Lowest DCR, lower loss, reduce size, high efficiency, less Temperature
- Winding to core isolation is 500 Vrms

MTF-4201-420

Inductance Value
Dimensions Size
Flat Wire



TypeSize	4201	4202	4203
L(mm)	32	32	32
W(mm)	27	35	43
H(mm)	43	43	43

Part No.	Inductance *1 (μH)	Saturation current (A)				DCR (mΩ) max. @20℃	Mounting Holes Pattern (mm)
		25℃		130℃			
		L(μH) *2	Isat (ADC)	L(μH)	Isat (ADC)		
MTF-4201-420	48 ± 20%	42	20	33.7	23.9	5.4	1.5 x 7.5
MTF-4201-300	32 ± 20%	30	25	20.2	28.5	3.3	1.7 x 7.5
MTF-4201-110	15 ± 20%	11	39	8.4	44.3	1.5	2.3 x 7.5
MTF-4201-5R5	9 ± 20%	5.5	52	4.3	60.7	0.9	2.7 x 7.5
MTF-4202-770	80 ± 20%	77	16	57.2	18.4	9.0	1.5 x 7.5
MTF-4202-520	55 ± 20%	52	20	38.9	20.7	5.9	1.7 x 7.5
MTF-4202-190	22 ± 20%	19	33	14.3	35.7	2.3	2.3 x 7.5
MTF-4202-130	16 ± 20%	13	40	9.7	44.2	1.5	2.7 x 7.5
MTF-4203-261	260 ± 20%	255	6.5	200	7.5	18	1.5 x 7.5
MTF-4203-201	200 ± 20%	200	10	148	9.8	10.5	1.5 x 7.5
MTF-4203-340	38 ± 20%	34	26	27	25.9	3.5	2.3 x 6.5
MTF-4203-500	55 ± 20%	50	30	35.7	23.8	5.0	1.9 x 6.5
MTF-4203-4R0	6.5 ± 20%	4.0	75	3.2	82.7	0.5	4.5 x 7.5

1. Inductance measuring condition: at 100 KHz, 0.1 Vrms
2. The saturation current (Isat) : indicates the value of D.C when the inductance become about 20%
3. Operating temperature range -25°C to +130°C. (Including coil's self temperature rise)
4. Storage temperature range -25°C to +130°C.
- 5 The temp. rise : The value of DC current when temp. rise is Δt 40 , (Ta =25 degree)



MTF-490X_{SERIES}



- Designed for Flat Helix Winding Coil high current, high volt*time applications
- Lowest DCR, lower loss, reduce size, high efficiency, less Temperature
- Winding to core isolation is 500 Vrms

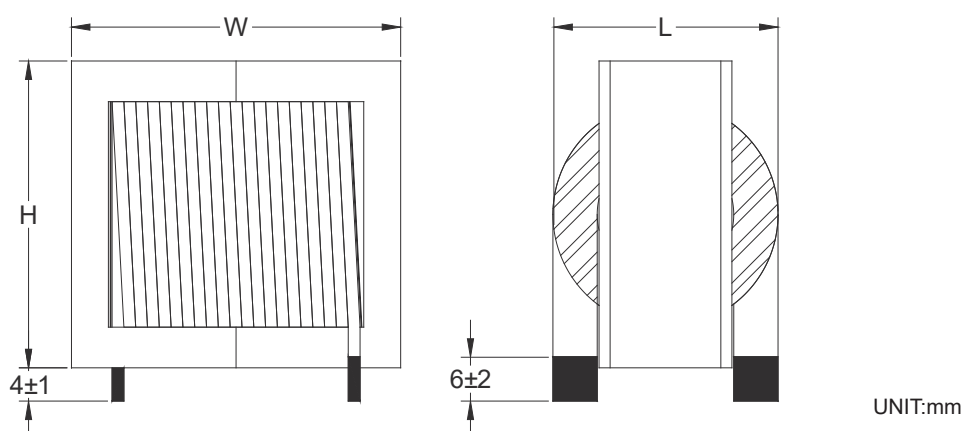
MTF-4901-161

Inductance Value

Dimensions Size

Flat Wire

Mechanical Dimensions:

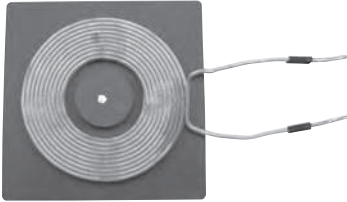
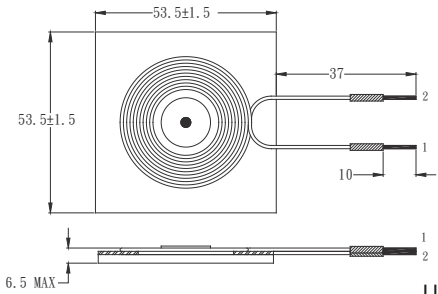
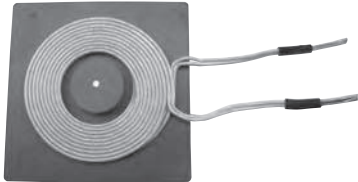
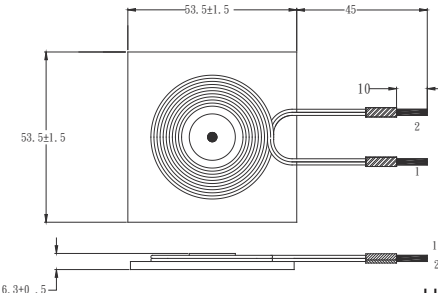
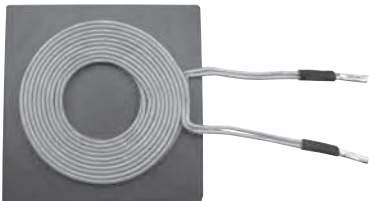
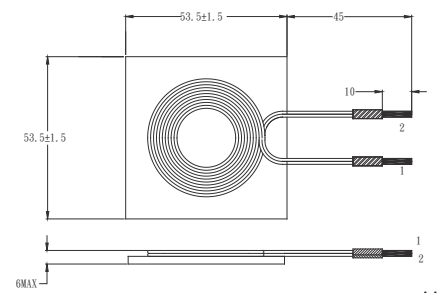
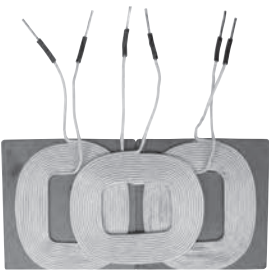
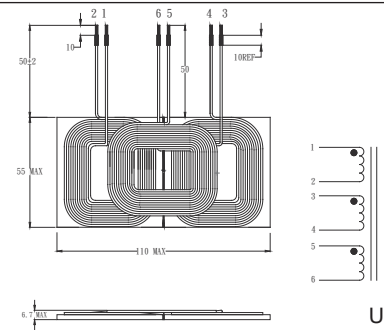
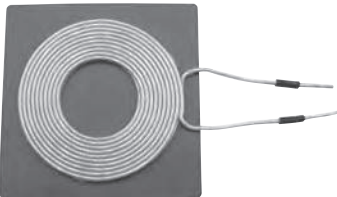
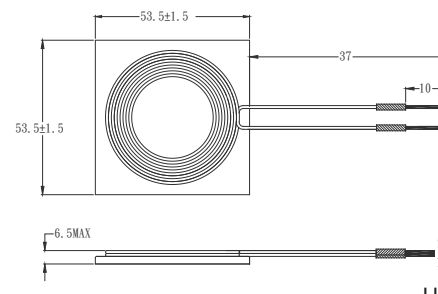


Size	L(mm)	W(mm)	H(mm)
	37	43	50

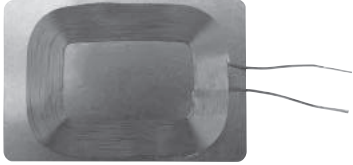
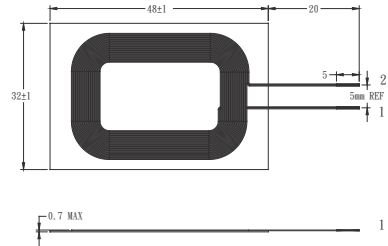
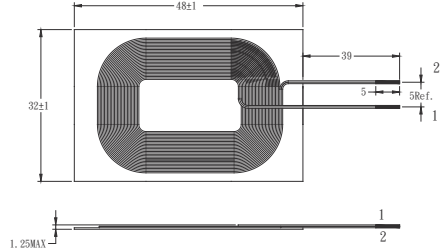
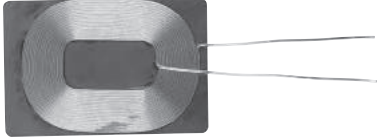
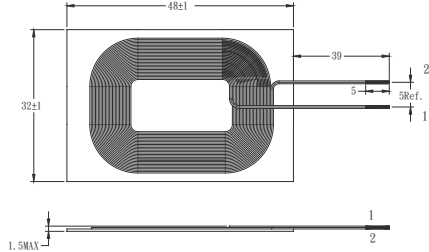
Part No.	Inductance *1 (μH)	Saturation current (A)				DCR (mΩ)max. @20°C	Mounting Holes Pattern (mm)
		25°C		130°C			
		L(μH) *2	Isat (ADC)	L(μH)	Isat (ADC)		
MTF-4901-161	160 ± 20%	155	14	110	13.6	14	1.5 x 7.5
MTF-4901-940	100 ± 20%	94	18	66.7	16.2	8.6	1.7 x 7.5
MTF-4901-370	41 ± 20%	36.5	28	28.8	24.6	3.5	2.3 x 7.5
MTF-4901-240	27.5 ± 20%	24	35	18.6	34.7	2.2	2.7 x 7.5
MTF-4901-130	16.5 ± 20%	13	47	10.3	42.6	1.3	3.3 x 7.5
MTF-4901-8R0	11 ± 20%	8.0	57	6.9	58.4	0.9	3.7 x 7.5
MTF-4901-6R0	9.0 ± 20%	6.0	70	4.8	57.5	0.65	4.5 x 7.5

1. Inductance measuring condition: at 100 KHz, 0.1 Vrms
2. The saturation current (Isat) : indicates the value of D.C when the inductance become about 20%
3. Operating temperature range -25°C to +130°C (Including coil's self temperature rise)
4. Storage temperature range -25°C to +130°C.
5. The temp. rise : The value of DC current when temp. rise is Δt 40 , (Ta =25 degree)

TX and RX Module for Wireless Power Charger

Type :	Features:	Mechanical Dimensions:
MTW-00296A 	1.Primary (TX) transmitter assembly. 2.Major materials: coil, shield and magnet. 3.Integrated in the plate for transmitting power. 4.Electrical Specification Inductance: 24uH(Typ)@100KHz/1Vrms. 5. Meet to WPC standard of A1.	 UNIT:mm
MTW-00032 	1.Primary (TX) transmitter assembly. 2.Major materials: coil, shield and magnet. 3.Integrated in the plate for transmitting power. 4.Electrical Specification Inductance: 6.3uH(Typ)@100KHz/1Vrms. 5.Meet to WPC standard of A5.	 UNIT:mm
MTW-00032W 	1.Primary (TX) transmitter assembly. 2.Major materials: coil and shield. 3.Integrated in the plate for transmitting power. 4.Electrical Specification Inductance: 6.3uH(Typ)@100KHz/1Vrms. 5 .Meet to WPC standard of A11.	 UNIT:mm
MTW-00033 	1.Primary (TX) transmitter assembly. 2.Major materials: coil, shield and magnet. 3.Integrated in the plate for transmitting power. 4.Electrical Specification Inductance (1-2 or 3-4:12.5uH typ, 6-5:11.5uH typ@100KHz/1Vrms.) 5.Meet to WPC standard of A6.	 UNIT:mm
MTW-00296W 	1.Primary (TX) transmitter assembly. 2.Major materials: coil and shield. 3.Integrated in the plate for transmitting power. 4.Electrical Specification Inductance: 24uH(Typ)@100KHz/1Vrms. 5.Meet to WPC standard of A10.	 UNIT:mm

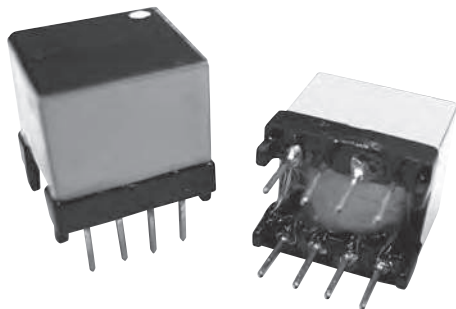
TX and RX Module for Wireless Power Charger

Type :	Features:	Mechanical Dimensions:
MTW-05001R 	1.Secondary (RX) receiver assembly. 2.Major materials: coil and shield. 3.Integrated in the back cover of Cell phone. 4.Electrical Specification Inductance: 15uH(Typ)@100KHz/1Vrms. 5.Application: Power 5W, for cell phone. 6.Total thickness 0.70 Max.	 UNIT:mm
MTW-05002R 	1.Secondary (RX) receiver assembly. 2.Major materials: coil and shield. 3.Integrated in the back cover of Cell phone. 4.Electrical Specification Inductance: 13uH(Typ)@100KHz/1Vrms. 5.Application: Power 5W, for cell phone. 6.Total thickness 1.25 Max.	 UNIT:mm
MTW-05003R 	1.Secondary (RX) receiver assembly. 2.Major materials: coil and shield. 3.Integrated in the back cover of Cell phone. 4.Electrical Specification Inductance: 13uH(Typ)@100KHz/1Vrms. 5.Application: Power 5W, for cell phone. 6.Total thickness 1.5 Max.	 UNIT:mm

↑
Go Top

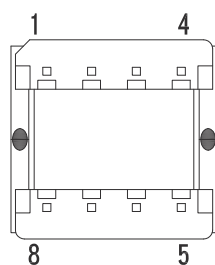
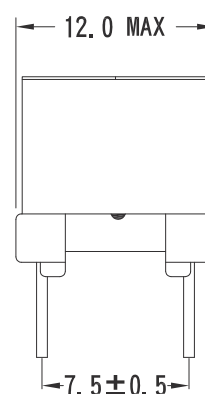
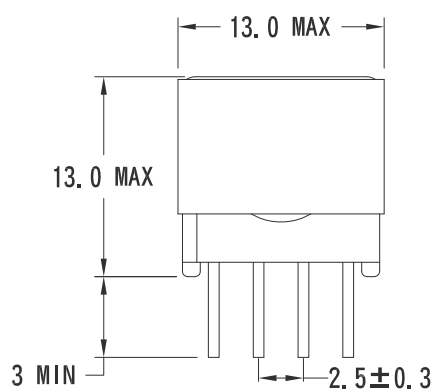
MGT-49160 SERIES

Gate Drive Transformers for EP Type

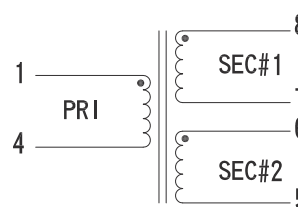


- Operating Temperature form -40°C to 130°C
- Manufactured to UL recognized 155°C insulation system
- Materials meet flammability requirements for UL 94V-0

Mechanical Dimensions:



(BOTTOM VIEW)



UNIT : mm

Electrical Specifications at 25°C

Part Number	Pri Inductance (mH Min)	Leakage Inductance (uH Max) SHORT(5,6,7,8)	Turn Ratio($\pm 2\%$) (1-4) : (8-7) (1-4) : (6-5)	D.C. Resistance		Hi-pot	
				(1-4) (Ω Max)	(8-7) (6-5) (Ω Max)	(Pri-Sec)	(Sec-Sec)
MGT-49160	0.9	0.35	1:1	0.35	0.8	3750	1500

1. Inductance tested at 100 KHz, 0.1 Vrms

2. $\Delta T = 45^{\circ}\text{C}$ rise typ.

Power Transformers

OFF-LINE Switch Mode

- Outlines and data shown here of Elytone existing standard part only, refining or special design to customer requirement is also available.

- 1 Designs available to match variety of PWM control IC's.
- 2 Designs meet UL/CSA/TUV/VDE Safety Standards.
- 3 Various configurations to fit different switching circuit applications.
- 4 Engineering support available to work closely with customer through project development and production.

GENERAL APPLICATION INFORMATION

MGT has come up with several designs of Off-Line Switch Mode power Transformers, which specifically to support the development of switching mode power supply using with PWM control IC's from N.S., P.I., T.I., I.R., MOTOROLA-----etc.

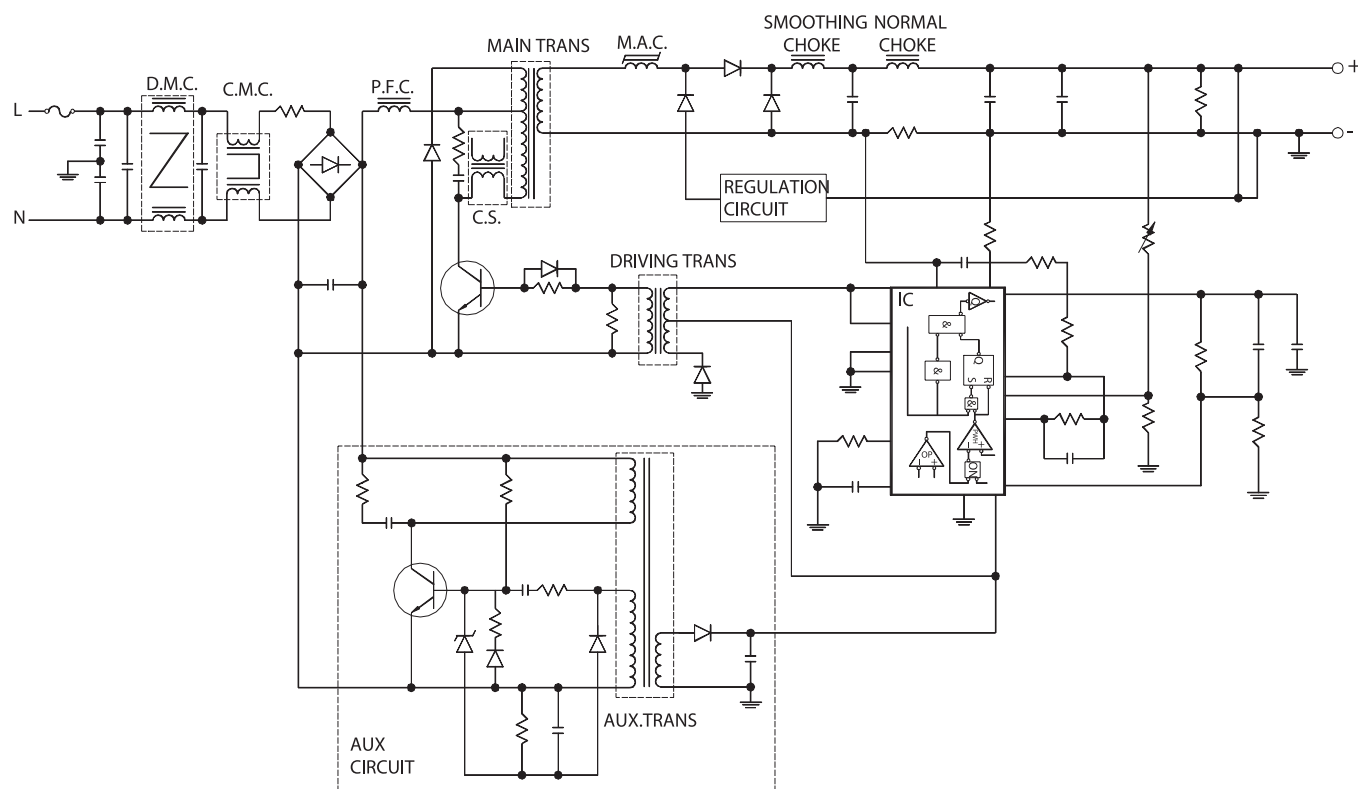
MGT switching mode transformers have been optimized to provide maximum power conversion efficiency in the Forward, Flyback, Push-pull, Half-bridge, Full-bridge, Buck and Boost circuit configurations.

Power Transformers

OFF-LINE Switch Mode

MGT HIGH PERFORMANCE MAGNETICS FOR S.M.P.S

Typical converter circuit-forward topology



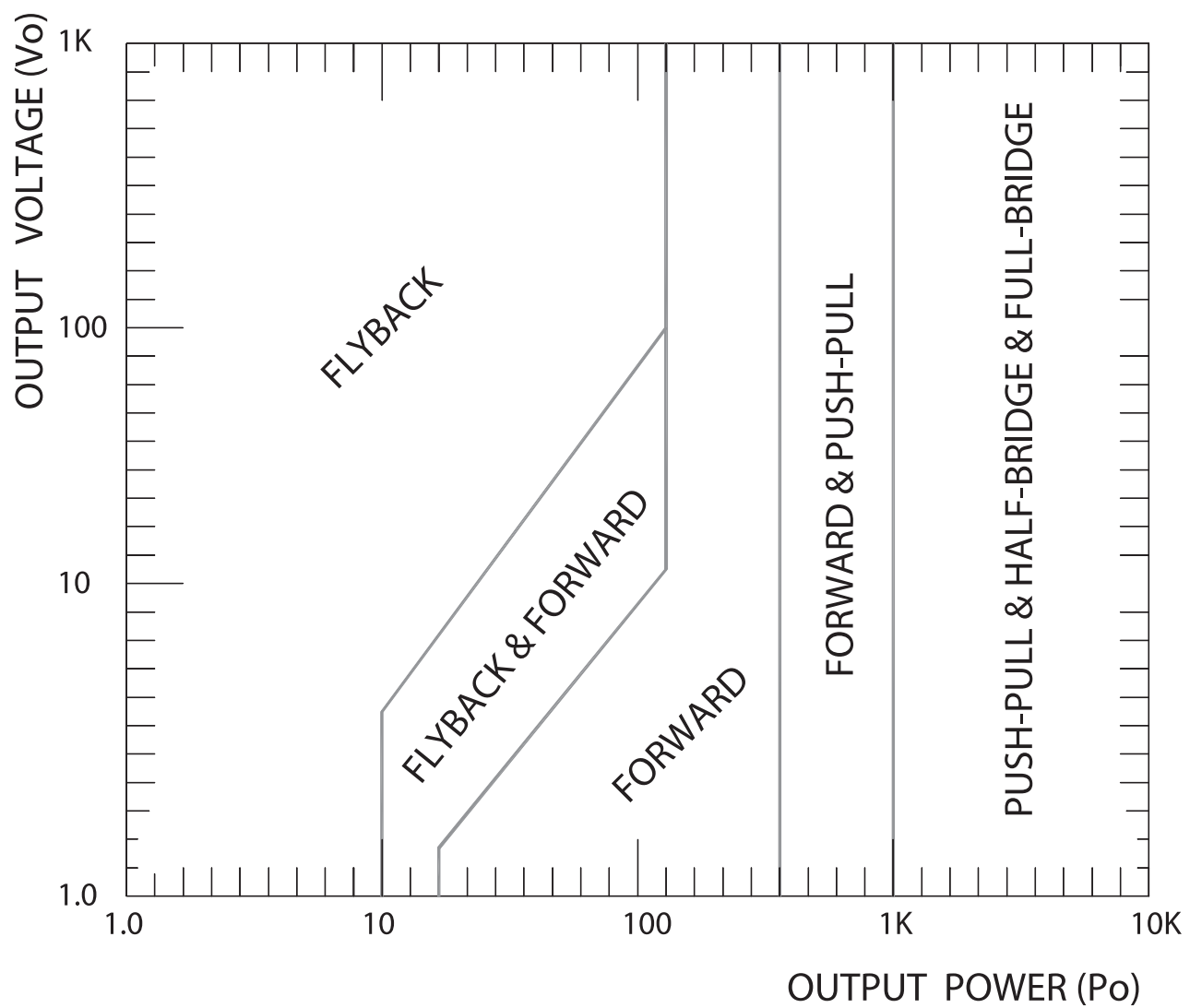
D.M.C.	-----	Differential Mode Choke
C.M.C.	-----	Common Mode Choke
P.F.C.	-----	Power Factor Correction Choke
M.A.C.	-----	MAG AMP Choke
C.S.	-----	Current Sense Transformer

Power Transformers

OFF-LINE Switch Mode

APPLICATION NOTES

Converter circuit as a function of S.M.P.S. output voltage (V_o) and output power (P_o)



Power Transformers

OFF-LINE Switch Mode

APPLICATION NOTES

Power throughput of different transformer types operating at 100KHz switching frequency.

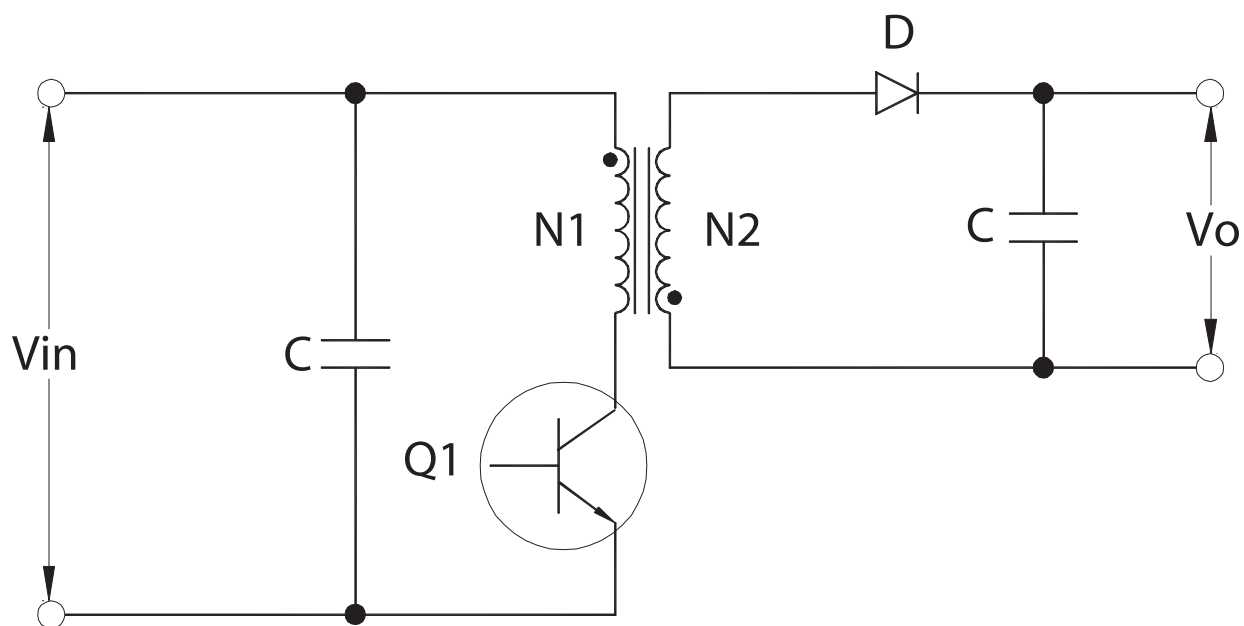
Transformer TYPE	POWER RANGE (W)							
	< 5	5 ~ 10	10 ~ 20	20 ~ 50	50 ~ 100	100 ~ 200	200 ~ 500	500 ~ 1K
EI	EI12.5	EI16	EI19	EI25	EI40		EI50	EI60
EE	EE13	EE16	EE19	EE25	EE40	EE42	EE55	EE65
EF	EF12.6	EF16	EF20	EF25	EF30	EF32		
EFD		EFD12	EFD15	EFD20	EFD25	EFD30		
EPC		EPC13	EPC17	EPC19	EPC25	EPC30		
EER	EER9.5	EER11	EER14.5	EER28	EER35	EER42	EER49	
ETD				ETD29	ETD34	ETD44	ETD49	ETD54
EP	EP10	EP13	EP17	EP20				
RM	RM4	RM5	RM6	RM10	RM12	RM14		
POT	POT1107	POT1408	POT1811	POT2213	POT3019	POT3622	POT4229	
PQ				PQ2016	PQ2625	PQ3230	PQ3535	PQ4040
EC						EC35	EC41	EC70

Power Transformers

OFF-LINE Switch Mode

APPLICATION NOTES

Flyback converter typical circuit diagram.



Advantages

1. Simple circuit and less component count.
2. Only one inductive component.
3. Low leakage loss.
4. More options of simple regulation circuit.
5. Collector current reduced by turn ratio of transformer.

Disadvantages

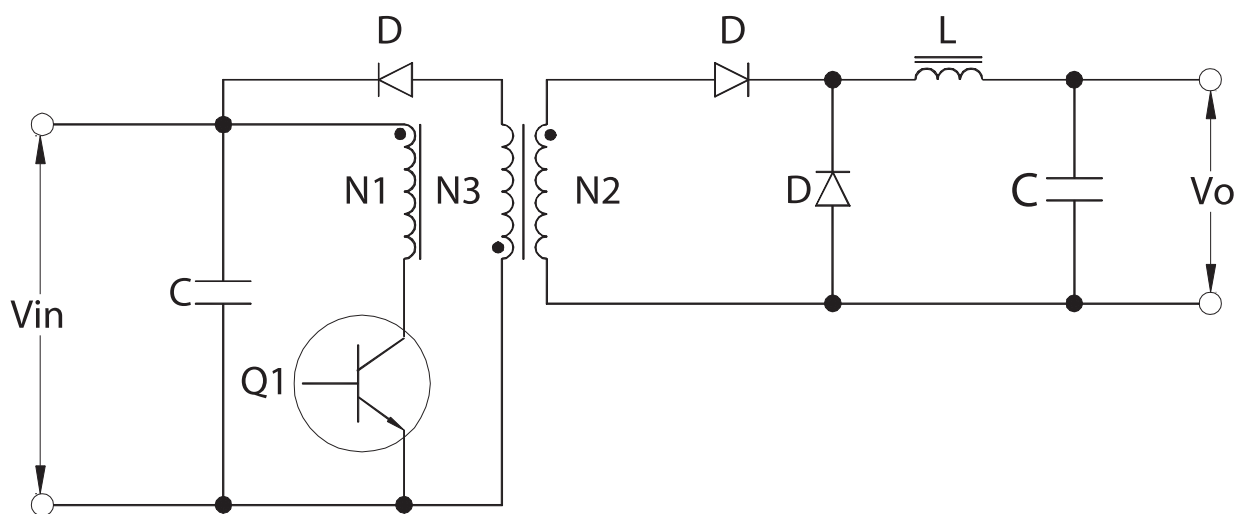
1. Big output capacitor is required to reduce ripple current.
2. High isolation requirement for close coupling of primary and secondary sides.
3. High eddy current loss in the air gap area.
4. Large transformer core with air gap may restrict applications.
5. Average radio interference.
6. Exacting requirements on components, including the transformer.

Power Transformers

OFF-LINE Switch Mode

APPLICATION NOTES

Forward converter typical circuit diagram.



Advantages

1. Higher power range than flyback converter.
2. Simple circuit and less component count. (Compare to other topologies at the applicable power range)
3. High efficiency.
4. Multiple output are possible.
5. Low ripple current. (Small output capacitor)
6. Collector current adjustable by turn ratio of $N2/N1$.

Disadvantages

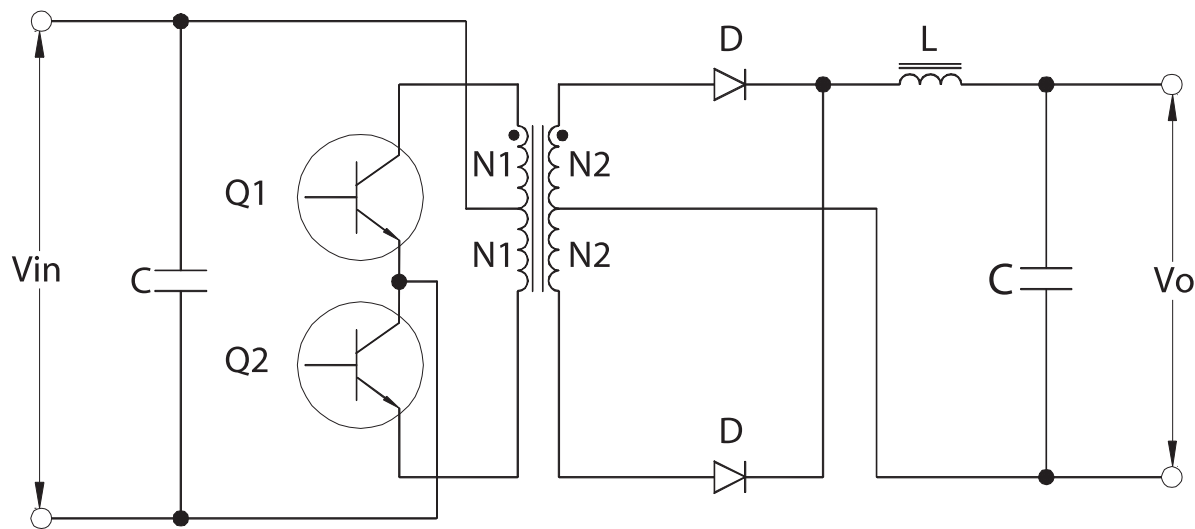
1. High component requirement, particularly with multiple regulated outputs.
2. Poor transient response.
3. Large choke is required.

Power Transformers

OFF-LINE Switch Mode

APPLICATION NOTES

Push-pull converter typical circuit diagram .



Advantages

1. Powers range up to the 1.0KW achievable.
2. Simple circuit.
3. Low radio interference suppression complexity.
4. High efficiency.
5. Small choke required.
6. Collector current adjustable as a function of N_2/N_1 .

Disadvantages

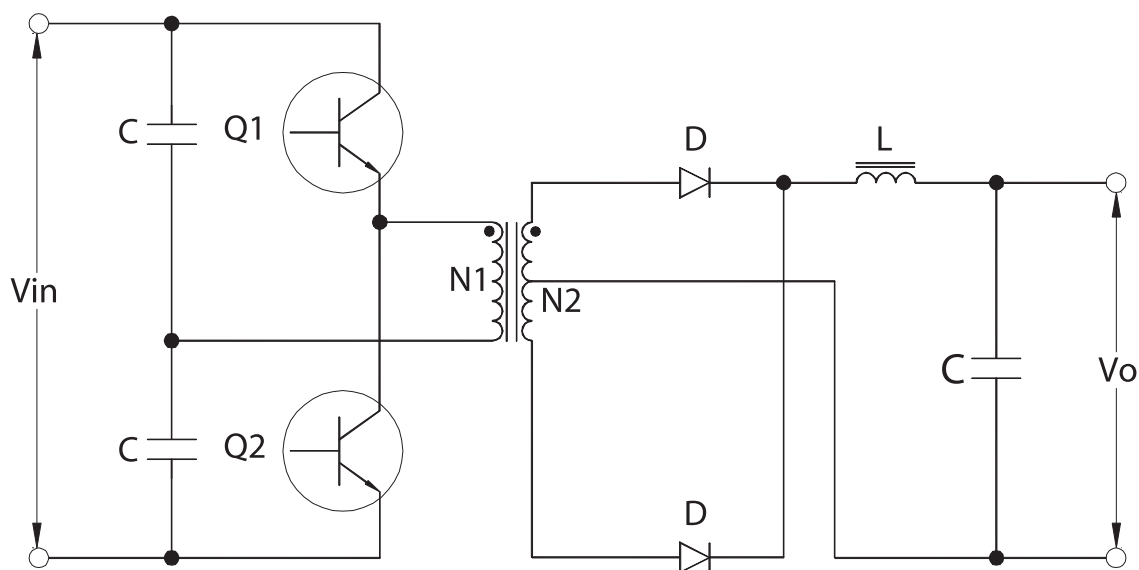
1. High component requirement, particularly with multiple regulated outputs.
2. Poor transient response.

Power Transformers

OFF-LINE Switch Mode

APPLICATION NOTES

Half-bridge push-pull converter typical circuit diagram.



Advantages

1. Powers range up to the 1.0KW achievable.
2. Simple circuit.
3. Transistors rated at V_{in} .
4. High efficiency.
5. Small choke required.
6. Collector current adjustable by turn ratio of $N2/N1$.

Disadvantages

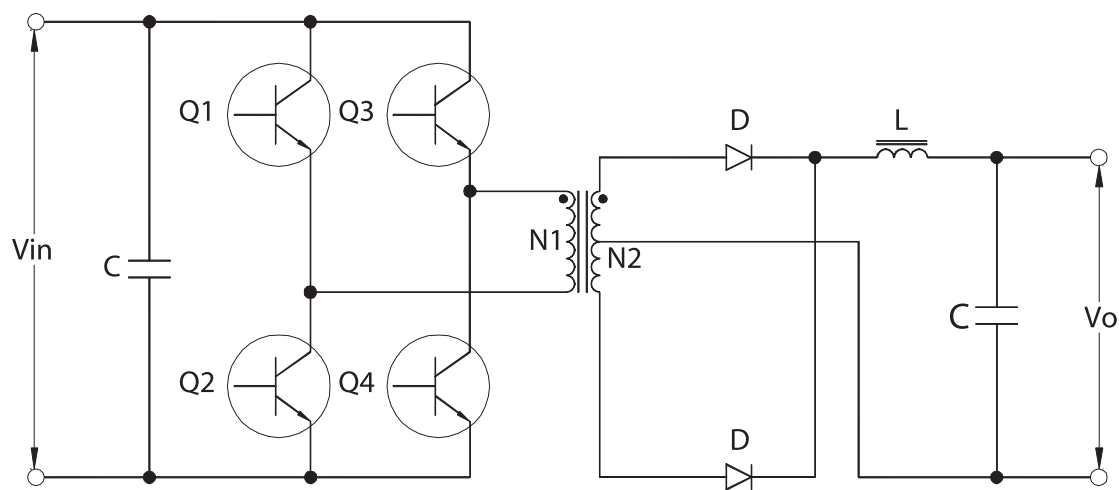
1. High component requirement, particularly with multiple regulated outputs.
2. Poor transient response.
3. Requires auxilliary power supply for control circuits.

Power Transformers

OFF-LINE Switch Mode

APPLICATION NOTES

Full-bridge push-pull converter typical circuit diagram.



Advantages

1. Powers range up to the 10KW achievable.
2. Transistor rated at as low as V_{in} is applicable.
3. Collector current adjustable by turn ratio of $N2/N1$.

Disadvantages

1. High component requirement, particularly with multiple regulate outputs.
2. Poor transient response.
3. Requires auxilliary power supply for control circuits.

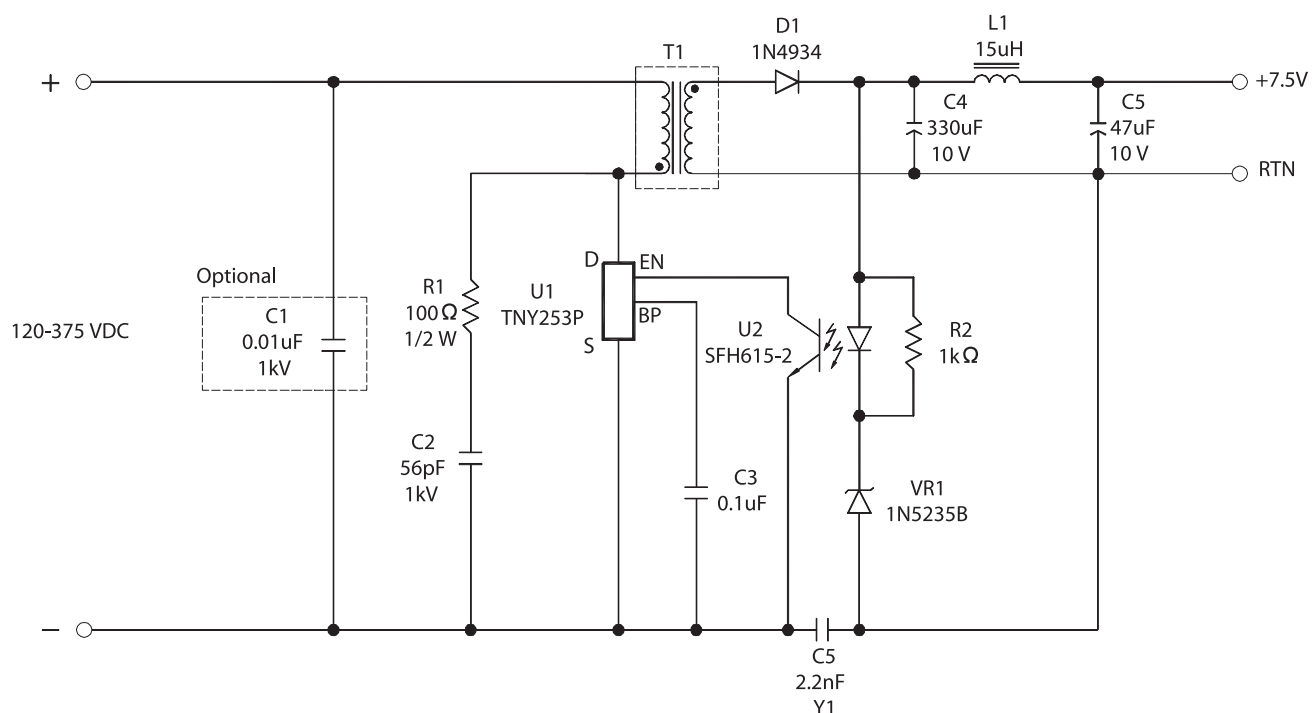
Power Transformers

OFF-LINE Switch Mode

APPLICATION NOTES

Example power supply circuit-Tinyswitch Family (1.3W TV Standby).

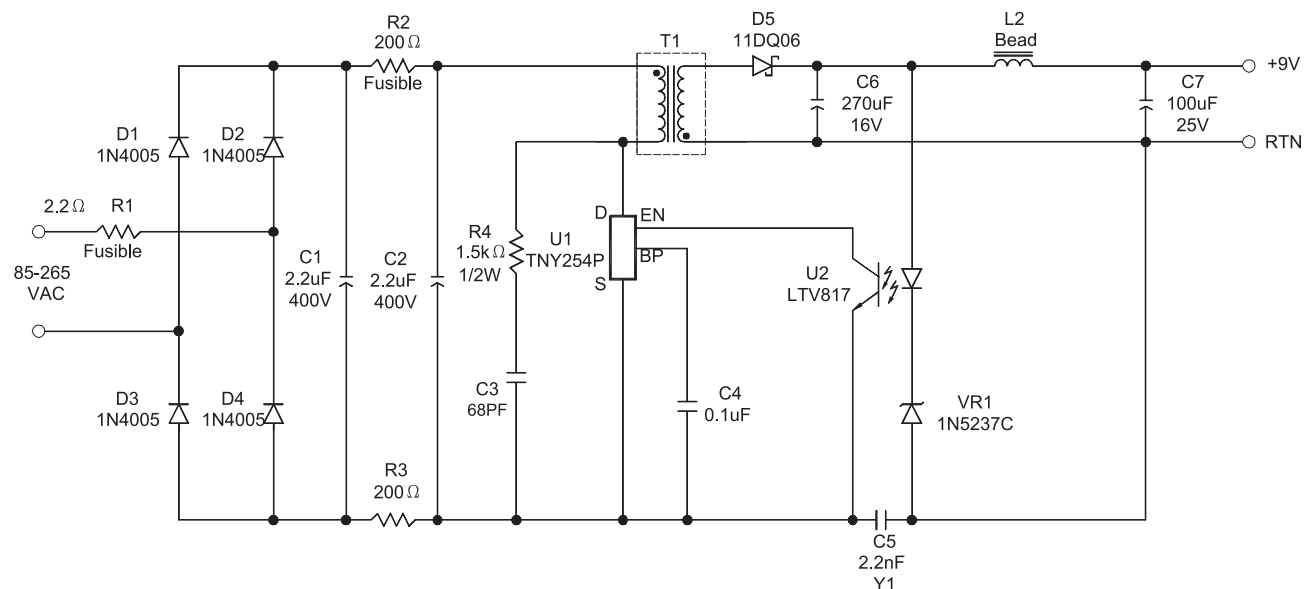
The TinySwitch TV standby power supply generates an isolated output voltage from a high voltage DC input. The circuit is designed to replace conventional linear supplies and self-oscillating ringing choke converters (RCC) at lower cost and component count. The example shown delivers 7.5V at 0.18A. Input voltage range is 120-375VDC.



APPLICATION NOTES

The TinySwitch flyback supply generates a single isolated output voltage from a universal range AC input. Typical applications are wall mount AC adapters and other applications requiring extremely low system cost and small size. The circuit is designed to replace conventional linear supplies, offering universal input range, smaller size, and high efficiency at a competitive cost.

S.M.P.S Transformers



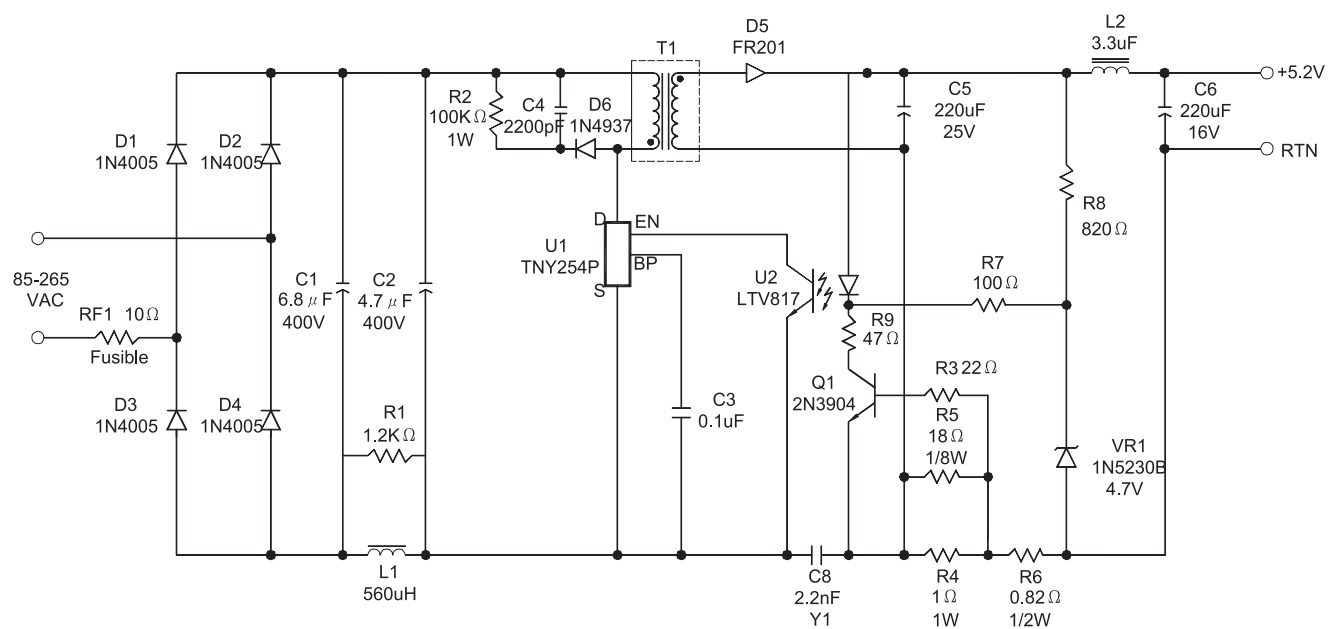
Power Transformers

OFF-LINE Switch Mode

APPLICATION NOTES

Example power supply circuit-Tinyswitch Family (3.6W Cellular Phone Adapter).

The TinySwitch flyback converter generates a regulated voltage with current limit for charging cellular phone batteries (Li-Ion, NiMH, NiCd).



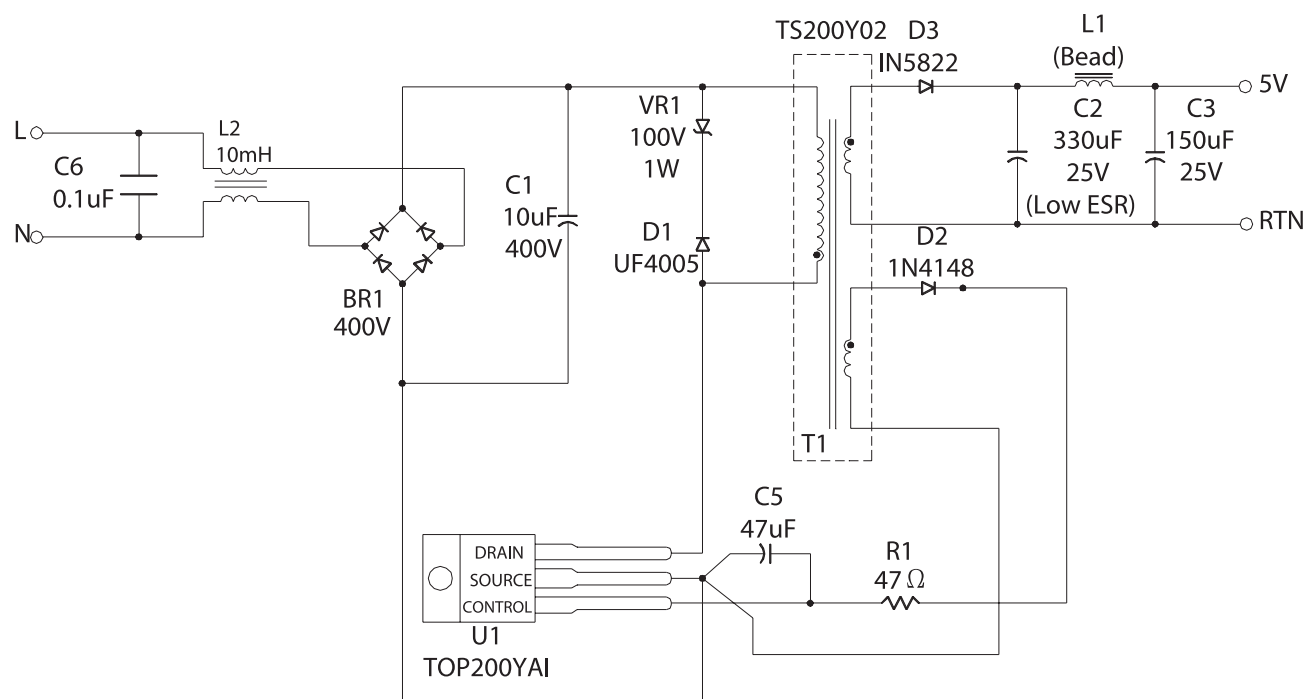
Power Transformers

OFF-LINE Switch Mode

APPLICATION NOTES

Example power supply circuit-Topswitch Family.

The example shown below is a simple 5V, 5W isolated bias supply using TOP200YAI that operates from a universal AC input with minimum part count.



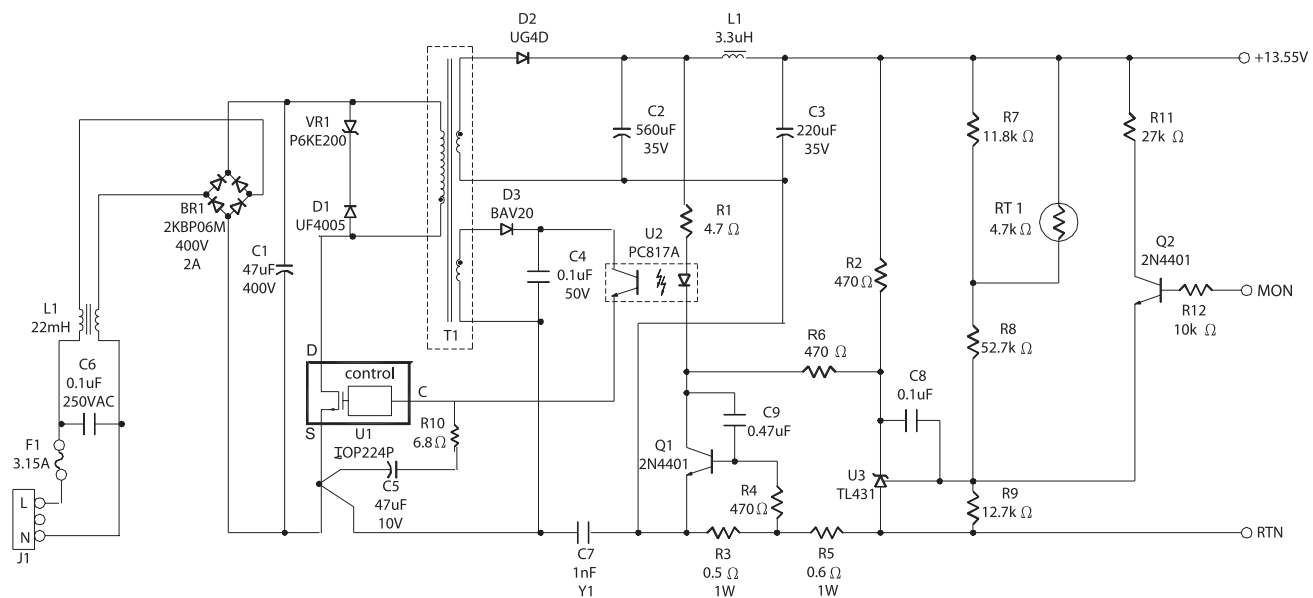
Power Transformers

OFF-LINE Switch Mode

APPLICATION NOTES

Example power supply circuit-Topswitch Family.

The TOPSwitch shown below generates a single isolated output voltage from a rectified AC input. This output can be used to charge a lead acid battery in applications such as fire/burglar alarm or emergency lighting.



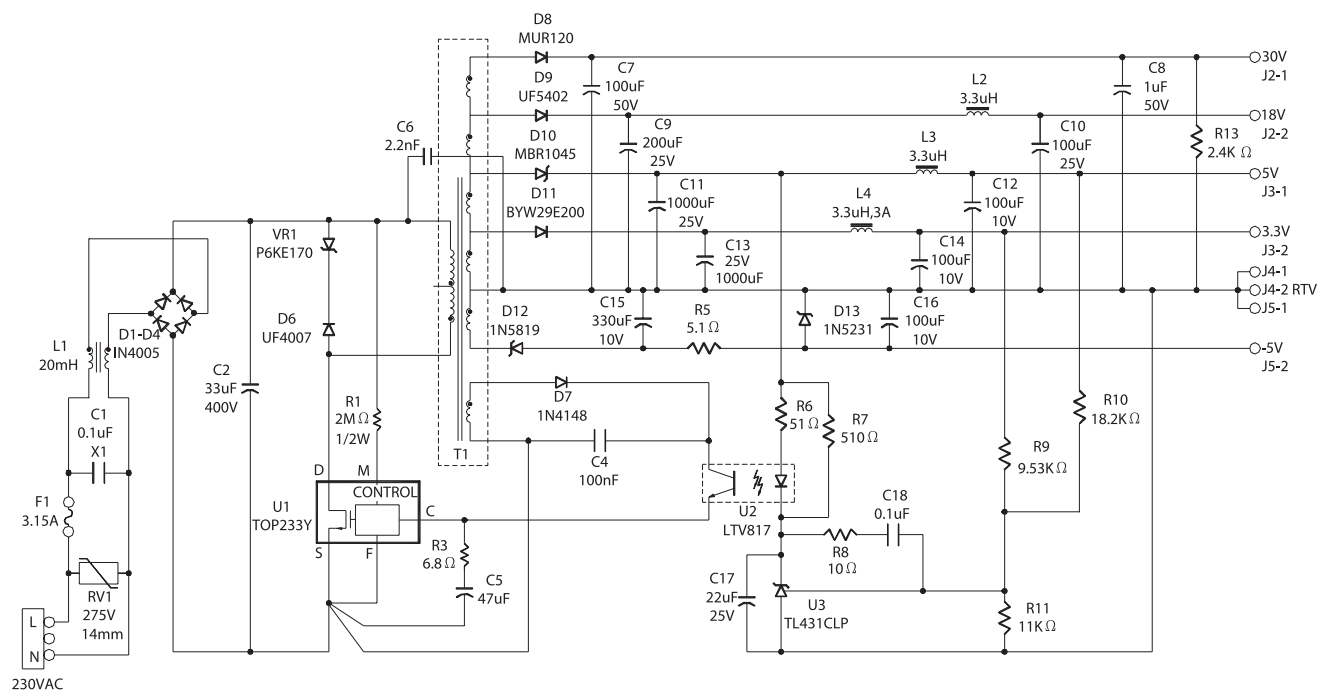
Power Transformers

OFF-LINE Switch Mode

APPLICATION NOTES

Example power supply circuit-Topswitch Family.

The TOPSwitch-FX supply provides 35W of output power for Set-top Box application. Five outputs are generated: 3.3V at 3A & 5V at 2.5A , 18V at 550mA , 30V at 100mA , -5V at 100mA.



Power Transformers

OFF-LINE Switch Mode

ELECTRICAL SPECIFICATIONS-TINY SWITCH FAMILY (at 25°C)

- Units designed to match the application of TNYXXX series, from power integration with universal AC input as designated.
- Operating temperature range : 0°C~70°C

PART NUMBER	MATCHED TO IC NO.	PACKAGE	ELECTRICAL SPECIFICATION												
			Vin Vac (50/60Hz)	Vout 1 Vdc	Io (CONT) Amps	Vout 2 Vdc	Io (CONT) Amps	Vout 3 Vdc	Io (CONT) Amps	Vout 4 Vdc	Io (CONT) Amps	Pw (CONT) Watt	Pw (PEAK) Watt	Lp (TYP) Mh	HI-POT (MIN) Vrms
MTN254P00	TNY254P	EE13V	62-265	9	0.17							1.5	4	1720	3000
MTN254P03	TNY253P	EE13V	185-265	5	0.3							1.5	4	7403	1000
MTN264G06	TNY264G	EE13V	207-253	10.5	0.2							2.1	9	3000	3000
MTN264P00	TNY264P	EE13V	85-265	24	0.125							3	6	1263	3000
MTN254P13	TNY254P	EE16H	85-265	12	0.05							0.6	4	1150	3000
MTN254G00	TNY254G	EE16H	170-264	2.4	0.3							0.75	5	3400	3000
MTN254P17	TNY254P	EE16H	85-265	5	0.48							2.4	4	3900	3000
MTN254P30	TNY254P	EE16H	85-265	10	0.25							2.5	4	3400	3000
MTN268G00	TNY268G	EE16H	85-265	24	0.4							9.6	15	4000	3000
MTN253P05	TNY253P	EE16V	120	12	0.02							0.25	4	1150	3000
MTN253G00	TNY253G	EE16V	85-265	9	0.065							0.6	2	2640	3000
MTN254P31	TNY254P	EE16V	85-265	3.3	0.25	-3.3	0.025					0.9075	4	3900	3000
MTN264G03	TNY264G	EE16V	85-265	12	0.045	-12	0.035					0.96	6	1344	3000
MTN254P19	TNY254P	EE16V	170-265	60	0.016							1	5	5300	3000
MTN253G02	TNY253G	EE16V	85-265	9	0.06	-9	0.055					1.035	2	3400	3000
MTN253P00	TNY253P	EE16V	85-265	7.5	0.15							1.125	2	5000	3000
MTN253P04	TNY253P	EE16V	85-265	5	0.3							1.5	2	6000	3000
MTN253P02	TNY253P	EE16V	207-253	5	0.4							2	4	7403	3000
MTN253P02	TNY253P	EE16V	207-253	5	0.4							2	4	7403	3000
MTN254P08	TNY254P	EE16V	190-265	12	0.16							2	5	3001	3000
MTN255P10	TNY255P	EE16V	85-265	12	0.17							2	6.5	669	3000
MTN264P01	TNY264P	EE16V	85-265	3.3	0.225	12	0.11					2	6	1344	3000
MTN254P09	TNY254P	EE16V	170-264	7	0.3							2.1	5	3500	1500
MTN254P11	TNY254P	EE16V	120-265	7	0.3							2.1	4	3500	3000
MTN254P23	TNY254P	EE16V	230	12	0.1	-12	0.1					2.4	5	3001	3000
MTN254P24	TNY254P	EE16V	90-265	12	0.1	-12	0.1					2.4	4	3200	3000
MTN254P14	TNY256P	EE16V	85-265	5.5	0.45							2.5	4	3900	3000
MTN254P01	TNY254P	EE16V	65-265	9	0.34							3	4	3400	3000
MTN254P02	TNY254P	EE16V	65-132	10	0.3							3	5	3400	3000
MTN254P03	TNY254P	EE16V	65-265	9	0.34							3	4	3860	3000
MTN254P04	TNY254P	EE16V	85-265	5	0.6							3	4	5200	3000
MTN254P10	TNY254P	EE16V	120/240	12	0.3							3	5	3000	3000
MTN254P12	TNY254P	EE16V	120-240	3.3	0.91							3	4	4200	3000
MTN254P18	TNY254P	EE16V	170-265	7	0.42							3	5	3500	3000
MTN254P21	TNY254P	EE16V	160-265	15	0.2							3	5	3826	3000
MTN254P22	TNY254P	EE16V	85-265	3.3	0.85							3	4	3900	3000
MTN254P27	TNY254P	EE16V	85-265	15	0.12	24	0.05					3	4	3400	3000
MTN254P05	TNY254P	EE16V	100-140	18	0.19							3.5	5	4508	3000
MTN255P09	TNY255P	EE16V	85-265	5	0.5	12	0.1					3.7	6.5	1785	3000
MTN254P26	TNY254P	EE16V	85-265	5	0.75							3.75	4	1140	3000
MTN254P25	TNY254P	EE16V	85-265	5	0.3	24	0.1					3.9	4	5000	3000

Power Transformers

OFF-LINE Switch Mode

ELECTRICAL SPECIFICATIONS-TINY SWITCH FAMILY (at 25°C)

- Units designed to match the application of TNYXXX series, from power integration with universal AC input as designated.
- Operating temperature range : 0°C~70°C

PART NUMBER	MATCHED TO IC NO.	PACKAGE	ELECTRICAL SPECIFICATION												
			Vin Vac (50/60Hz)	Vout 1 Vdc	Io (CONT) Amps	Vout 2 Vdc	Io (CONT) Amps	Vout 3 Vdc	Io (CONT) Amps	Vout 4 Vdc	Io (CONT) Amps	Pw (CONT) Watt	Pw (PEAK) Watt	Lp (TYP) Mh	HI-POT (MIN) Vrms
MTN254G01	TNY254G	EE16V	85-265	7	0.6							4	4	4740	3000
MTN254P07	TNY254P	EE16V	85-253	24	0.16							4	4	5300	3700
MTN254P29	TNY254P	EE16V	195-265	5	0.6	24	0.05					4.2	5	4501	3000
MTN254P15	TNY254P	EE16V	85-265	5	1							5	4	4000	3000
MTN255P01	TNY255P	EE16V	85-265	15	0.17	-15	0.17					5	6.5	1850	3000
MTN256P10	TNY256P	EE16V	85-265	5	0.5	12	0.2					5	10	580	3000
MTN256P04	TNY256P	EE16V	85-265	5.5	1							5.5	10	750	3000
MTN256P11	TNY256P	EE16V	85-265	5	0.2	24	0.2					5.8	10	600	3000
MTN255P07	TNY255P	EE16V	85-265	5	1.2							6	6.5	2443	3000
MTN255P08	TNY255P	EE16V	85-265	12	0.5							6	6.5	2033	3000
MTN255P05	TNY255P	EE16V	85-265	10	0.7							7	6.5	3540	3000
MTN256P05	TNY256P	EE16V	85-265	5	1	12	0.1	-12	0.1			7.4	10	734	3000
MTN254P28	TNY254P	EE16V	65-132	6	0.3	9	0.3	10	0.3			7.5	5	3400	3000
MTN255P00	TNY255P	EE16V	85-265	12	0.625							7.5	6.5	3000	3000
MTN255P03	TNY255P	EE16V	85-165	5	1.5							7.5	6.5	4000	3000
MTN256P00	TNY256P	EE16V	85-265	5	1.5							7.5	10	734	3000
MTN255P02	TNY255P	EE16V	115/230	5	1.6							8	10	2200	3600
MTN256P01	TNY256P	EE16V	90-265	6.5	1.25							8	10	1200	3000
MTN255P06	TNY255P	EE16V	85-265	24	0.4							9.6	6.5	4000	3000
MTN265P09	TNY256P	EE16V	230	12	0.8							10	15	1500	3000
MTN255P11	TNY255P	EE16V	187-265	5	0.6	12	0.6					10.2	10	1274	3000
MTN254P06	TNY254P	EE19H	96-332	19	0.21							4	4	2775	3000
MTN268P01	TNY268P	EE19H	85-265	5	1.5	24	0.125					10.5	15	1004	3000
MTN256Y00	TNY256Y	EE19H	230	15	0.8							12	19	1700	3000

Power Transformers

OFF-LINE Switch Mode

ELECTRICAL SPECIFICATIONS-TINY SWITCH FAMILY (at 25°C)

- Units designed to match the application of TNYXXX series, from power integration with universal AC input as designated.
- Operating temperature range : 0°C~70°C

PART NUMBER	MATCHED TO IC NO.	PACKAGE	ELECTRICAL SPECIFICATION												
			Vin Vac (50/60Hz)	Vout 1 Vdc	Io (CONT) Amps	Vout 2 Vdc	Io (CONT) Amps	Vout 3 Vdc	Io (CONT) Amps	Vout 4 Vdc	Io (CONT) Amps	Pw (CONT) Watt	Pw (PEAK) Watt	Lp (TYP) Mh	HI-POT (MIN) Vrms
MTN256Y02	TNY256Y	EE19H	195-265	18	0.67							12	19	1638	3000
MTN256P12	TNY256P	EE19V	190-264	15	0.53							7.95	15	954	3000
MTN256P02	TNY256P	EE19V	85-265	9	0.88							8	10	950	3000
MTN256P03	TNY256P	EE19V	85-265	6.5	1.25							8	10	1000	3000
MTN256P08	TNY256P	EE19V	85-265	3.3	3							10	10	1200	3000
MTN256Y01	TNY256P	EE19V	195-265	12	1							12	19	1336	3000
MTN256P07	TNY256P	EE19V	230	1.8	0.7	3.3	1.8	12	0.25	-1.2	0.25	13.2	15	1550	3000
MTN264G01	TNY264G	EF12.6H	85-265	12	0.045	-12	0.035					0.96	6	1344	1000
MTN264G08	TNY264G	EF12.6H	85-265	5	0.2							1	6	770	3000
MTN264P06	TNY264P	EF12.6H	85-265	5	0.1	15	0.02	-15	0.02			1.1	4	770	3000
MTN264G04	TNY264G	EF12.6H	85-265	3.3	0.15	15	0.045					1.2	6	459	3000
MTN264G05	TNY264G	EF12.6H	85-265	9	0.13							1.2	6	459	3000
MTN264P04	TNY264P	EF12.6H	85-265	14	0.1							1.4	4	1174	3000
MTN264G10	TNY264G	EF12.6H	192-288	12	0.15							1.8	9	1281	4000
MTN264P02	TNY264P	EF12.6H	85-265	3.3	0.225	12	0.11					2	4	770	3000
MTN253G01	TNY253G	EF12.6H	50-100(DC)	9	0.3							2.7	4	2640	3000
MTN264P03	TNY264P	EF12.6H	85-265	9	0.33							3	4	1250	3000
MTN264G00	TNY264G	EF12.6H	85-265	14	0.11	-14	0.11					3.08	6	1344	1000
MTN264G09	TNY264G	EF12.6H	85-265	5	0.8							4	6	2174	1000
MTN264G07	TNY264G	EF12.6H	85-265	16	0.16	-16	0.16					5	6	2174	1000
MTN264P07	TNY264P	EF12.6H	85-135	18	0.28							5.04	9	2174	1000
MTN266P01	TNY266P	EF12.6H	85-265	12	0.55							6.6	9.5	1197	3000
MTN264P05	TNY264P	EF16H	85-265	5	0.6							3	4	1329	3000
MTN254P16	TNY254P	EF16H	90-265	6.2	0.65							4.1	4	1200	3000

Power Transformers

OFF-LINE Switch Mode

ELECTRICAL SPECIFICATIONS-TINY SWITCH FAMILY (at 25°C)

- Units designed to match the application of TNYXXX series, from power integration with universal AC input as designated.
- Operating temperature range : 0°C~70°C

PART NUMBER	MATCHED TO IC NO.	PACKAGE	ELECTRICAL SPECIFICATION												
			Vin Vac (50/60Hz)	Vout 1 Vdc	Io (CONT) Amps	Vout 2 Vdc	Io (CONT) Amps	Vout 3 Vdc	Io (CONT) Amps	Vout 4 Vdc	Io (CONT) Amps	Pw (CONT) Watt	Pw (PEAK) Watt	Lp (TYP) Mh	HI-POT (MIN) Vrms
MTN255P12	TNY255P	EF16H	195-265	6	1							6	10	2200	3000
MTN256P13	TNY256P	EF16V	230	12	0.8							10	15	1000	3000
MTN268P00	TNY268P	EF20H	85-265	12	1							12	15	1004	3000
MTN256P06	TNY256P	EF20V	230	13.7	1							13.7	15	1500	3000
MTN264G02	TNY264G	EFD15	85-265	12	0.045	-12	0.035					0.96	3	1344	3000
MTN254G02	TNY254G	EFD15	85-265	5	0.48							2.4	4	9682	3000
MTN254P20	TNY254P	EFD20	85-265	5	0.48							2.4	4	3601	3000
MTN266P00	TNY266P	EL16V	85-265	20	0.3							6	6	677	3000



Power Transformers

OFF-LINE Switch Mode

ELECTRICAL SPECIFICATIONS-TOPSWITCH FAMILY (at 25°C)

- Units designed to match the application of TOPXXX series, from power integration with universal AC input as designated.
- Operating temperature range : 0°C~70°C

PART NUMBER	MATCHED TO IC NO.	PACKAGE	ELECTRICAL SPECIFICATION												
			V _{in} Vac (50/60Hz)	V _{out} 1 V _{dc}	I _o (CONT) Amps	V _{out} 2 V _{dc}	I _o (CONT) Amps	V _{out} 3 V _{dc}	I _o (CONT) Amps	V _{out} 4 V _{dc}	I _o (CONT) Amps	P _w (CONT) Watt	P _w (PEAK) Watt	L _p (TYP) Mh	HI-POT (MIN) Vrms
MTS221Y02	TOP221YAI	EE13V	85-145	14	0.57							8	12	892	1000
MTS200Y03	TOP200YAI	EE16H	85-265	24	0.04	11	0.004					1.1	12	6000	2500
MTS221P01	TOP221P	EE16H	185-265	6.2	0.4	13.5	0.03					2.9	9	2925	3000
MTS210P01	TOP210PFI	EE16H	85-265	5	0.8							4	5	8000	3000
MTS210P04	TOP210PFI	EE16H	85-265	15	0.3							4.5	5	4000	3000
MTS200Y04	TOP200YAI	EE16H	85-265	30	0.08	-30	0.08					4.8	12	4200	3000
MTS200Y02	TOP200YAI	EE16H	85-265	5	1							5	12	4200	3000
MTS102Y01	TOP102YAI	EE16H	48(DC)	5	1.13	-5	1.13					12	17	210	1500
MTS202Y05	TOP202YAI	EE16H	85-265	5	1.047	12	1.047					18	30	560	1500
MTS209P01	TOP209P	EE16V	85-265	5	0.4							2	2	10000	3000
MTS232Y03	TOP232YAI	EE16V	195-265	24	0.1	5	0.1					2.9	10	602	3000
MTS210P02	TOP210PFI	EE16V	90-132	12	0.25							3	8	820	3000
MTS221P02	TOP221P	EE16V	85-265	5	0.7							3.5	6	2430	3000
MTS221Y04	TOP221YAI	EE16V	85-265	5	0.72							3.6	7	2431	3000
MTS221Y06	TOP221YAI	EE16V	85-265	5	0.72	-5	0.2					4.6	7	2431	3000
MTS221Y08	TOP221YAI	EE16V	85-265	9.75	0.5							4.8	7	4000	3000
MTS221Y07	TOP221YAI	EE16V	48(DC)	5	0.6	-24	0.042	-48	0.021			5	12	210	3000
MTS222P03	TOP222P	EE16V	50-100(DC)	5	1.05							5.25	15	1008	3000
MTS222P01	TOP222P	EE16V	85-265	15	0.5							7.5	10	1637	3000
TS412G03	TOP412G	EE16V	46-80(DC)	3.3	0.6	24	0.3					9	15	345	1500
MTS221P03	TOP221P	EE19H	85-265	5	0.5	12	0.2					4.9	6	2968	3000
MTS243Y05	TOP243YAI	EE19H	175-265	5	1.5							7.5	45	872	3000
MTS221Y03	TOP221YAI	EE19H	195-265	24	0.29	6	0.1					7.6	12	3099	3000
MTS223Y06	TOP223YAI	EE19H	50-100(DC)	6	1.5							9	50	480	3000
MTS243Y03	TOP243YAI	EE19H	175-265	12	1							12	45	872	3000
MTS222Y03	TOP222YAI	EE19V	85-265	5	1	24	0.1					7.4	15	1084	3750
MTS222P02	TOP222P	EE19V	85-265	15	0.5							7.5	10	1637	3000
MTS222Y05	TOP222YAI	EE19V	85-265	8	0.02	8	0.25	12	0.05	15	0.35	8.01	15	1084	3000
MTS222Y04	TOP222YAI	EE19V	85-265	5	2							10	15	1084	3000
MTS232Y04	TOP232YAI	EE19V	176-265	5	1.8	12	0.4					13.8	25	1349	3750

Power Transformers

OFF-LINE Switch Mode

ELECTRICAL SPECIFICATIONS-TOPSWITCH FAMILY (at 25°C)

- Units designed to match the application of TOPXXX series, from power integration with universal AC input as designated.
- Operating temperature range : 0°C~70°C

PART NUMBER	MATCHED TO IC NO.	PACKAGE	ELECTRICAL SPECIFICATION												
			Vin Vac (50/60Hz)	Vout 1 Vdc	Io (CONT) Amps	Vout 2 Vdc	Io (CONT) Amps	Vout 3 Vdc	Io (CONT) Amps	Vout 4 Vdc	Io (CONT) Amps	Pw (CONT) Watt	Pw (PEAK) Watt	Lp (TYP) Mh	HI-POT (MIN) Vrms
MTS202Y02	TOP202YAI	EE22V	85-265	7.5	2							15	30	620	3000
MTS202Y03	TOP202YAI	EE22V	85-265	7.5	2							15	30	620	3000
MTS202Y01	TOP202YAI	EE22V	85-265	5	1.047	12	1.047					18	30	560	3000
MTS222Y01	TOP222YAI	EE22V	145-265	5	1	15	1					20	25	1770	3000
MTS223Y01	TOP223YAI	EE22V	85-265	5	0.8	12	0.4	-12	0.4	17	0.4	20.5	30	634	3000
MTS223Y04	TOP223YAI	EE22V	85-265	12	1.03	-12	0.97					24	30	634	3000
MTS223Y05	TOP223YAI	EE22V	90-132	8	4.5	5	0.5					38.5	50	634	3000
MTS224P03	TOP224P	EE25V	85-265	12	1							12	20	650	3000
MTS223Y09	TOP223YAI	EE25V	85-265	5	3							15	30	980	3000
MTS224Y03	TOP224YAI	EE25V	50-100(DC)	24	1							24	75	440	3000
MTS224Y06	TOP224YAI	EE25V	98-138	30	0.87							26	75	575	3000
MTS221Y05	TOP221YAI	EF16H	85-265	5	0.72							3.6	7	2431	3000
MTS210P05	TOP210PFI	EF16H	195-265	12	0.5							6	8	4300	3000
MTS221Y01	TOP221YAI	EF16V	85-145	14	0.57							8	12	892	3000
MTS232Y02	TOP232YAI	EF20H	175-265	12	0.25							3	10	1650	3000
MTS223P04	TOP223P	EF20H	85-265	5	1							5	15	1170	3000
MTS232Y01	TOP232YAI	EF20H	175-265	3.3	0.25	5	0.25	15	0.2			5.125	10	1650	3000
MTS223P01	TOP223P	EF20H	85-265	5	0.3	28	0.2					7.5	15	1420	3000
MTS222Y06	TOP222YAI	EF20H	85-265	8	0.02	8	0.25	12	0.05	15	0.2/0.05x3	8.01	15	1084	3000
MTS223P02	TOP223P	EF20H	85-265	6.5	1.5							10	15	1170	3000
MTS200Y01	TOP200YAI	EF20H	90-260	3	3.5							10.5	12	2800	3000
MTS201Y01	TOP201YAI	EF20H	90-260	3	3.5							10.5	22	2800	3000
MTS202Y03	TOP202YAI	EF20H	85-265	5	1.047	12	1.047					18	30	560	3000
MTS233Y01	TOP233YAI	EF20H	195-265	24	0.8	5	0.2					20.2	50	1618	3000
MTS201Y02	TOP201YAI	EF25H	85-265	12	1.25							15	22	1884	3000
MTS234Y02	TOP234YAI	EF25H	85-265	3.3	2.3	12	1.1	16	1.1			38	45	1350	3000
MTS243Y02	TOP243YAI	EF25V	100-265	5	1	6	1	-5	1	-6	1	22	30	708	3000
MTS234Y01	TOP234YAI	EF25V	85-265	12	2.5							30	45	1016	3000

Power Transformers

OFF-LINE Switch Mode

ELECTRICAL SPECIFICATIONS-TOPSWITCH FAMILY (at 25°C)

- Units designed to match the application of TOPXXX series, from power integration with universal AC input as designated.
- Operating temperature range : 0°C~70°C

PART NUMBER	MATCHED TO IC NO.	PACKAGE	ELECTRICAL SPECIFICATION												
			Vin Vac (50/60Hz)	Vout 1 Vdc	Io (CONT) Amps	Vout 2 Vdc	Io (CONT) Amps	Vout 3 Vdc	Io (CONT) Amps	Vout 4 Vdc	Io (CONT) Amps	Pw (CONT) Watt	Pw (PEAK) Watt	Lp (TYP) Mh	HI-POT (MIN) Vrms
MTS234Y03	TOP234YAI	EF25V	85-265	12	2.5							30	45	1016	3000
MTS243Y01	TOP243YAI	EF25V	195-265	18	1.8							32.4	45	872	3000
MTS243Y04	TOP243YAI	EF25V	175-265	24	1.3	5	0.5					33.7	45	872	3000
MTS234Y04	TOP234YAI	EF25V	85-265	14	2.5							35	45	1016	4000
MTS224Y02	TOP224YAI	EF30H	85-265	23	1.52							35	45	960	4000
MTS245Y03	TOP245YAI	EF30H	195-265	35	2	5	0.1					70.6	85	485	3000
MTS247Y02	TOP247YAI	EF30H	85-265	24	3	8	0.05					72.5	125	125	3000
MTS412G02	TOP412G	EFD20	40-150(DC)	5	0.6							3	18	534	1500
MTS412G01	TOP412G	EFD20	42-60(DC)	5	1.2							6	12	1678	1500
MTS224Y09	TOP224YAI	EFD20	90-264	20	0.5							10	45	580	3000
MTS414G01	TOP414G	EFD20	36-72(DC)	5	2							10	18	614	1500
MTS414G02	TOP414G	EFD20	36-72(DC)	6	0.1	15	0.68					10.8	18	614	1000
MTS224Y01	TOP224YAI	EFD20	85-265	14.5	1.1							16	45	1620	3000
MTS103Y01	TOP103YAI	EFD20	40-50(DC)	5	0.25	15	1.3					21	22	168	1500
MTS414G03	TOP414G	EFD25	18-90(DC)	5	0.3	24	0.1					4	21	370	4000
MTS223Y11	TOP223YAI	EFD25	85-265	5	1.5	12	0.15	-12	0.15			11.1	30	1120	3000
MTS223Y03	TOP223YAI	EFD25	85-265	5	1.5	12	0.15	-12	0.15	-60	0.06	15	30	1120	3000
MTS224Y08	TOP224YAI	EFD25	85-265	14.5	1.1	12	0.15	-12	0.15			20	45	1620	3000
MTS224P01	TOP224P	EI25V	100-120	12	1							12	30	596	3000
MTS227Y08	TOP227YAI	EI28V	85-265	12	1							12	90	500	3000
MTS204Y01	TOP204YAI	EI28V	85-265	15	1							15	60	627	3000
MTS223Y02	TOP223YAI	EI28V	80-360	5	1	12	0.3	20	0.3	32	0.02	15.5	30	620	3000
MTS227Y05	TOP227YAI	EI28V	85-265	5	1	12	1					17	90	500	3000
MTS224Y07	TOP224YAI	EI28V	172-265	14	1.78							25	75	1675	3000
MTS204Y02	TOP204YAI	EI28V	85-265	15	2							30	60	627	3000
MTS227Y07	TOP227YAI	EI28V	85-265	5	6							30	90	500	3000
MTS224Y04	TOP224YAI	EI28V	92-133	5	0.2	8	4.5					37	75	881	3000
MTS227Y06	TOP227YAI	EI28V	85-265	5	3	12	2					39	90	500	3000

Power Transformers

OFF-LINE Switch Mode

ELECTRICAL SPECIFICATIONS-TOPSWITCH FAMILY (at 25°C)

- Units designed to match the application of TOPXXX series, from power integration with universal AC input as designated.
- Operating temperature range : 0°C~70°C

PART NUMBER	MATCHED TO IC NO.	PACKAGE	ELECTRICAL SPECIFICATION												
			Vin Vac (50/60Hz)	Vout 1 Vdc	Io (CONT) Amps	Vout 2 Vdc	Io (CONT) Amps	Vout 3 Vdc	Io (CONT) Amps	Vout 4 Vdc	Io (CONT) Amps	Pw (CONT) Watt	Pw (PEAK) Watt	Lp (TYP) Mh	HI-POT (MIN) Vrms
MTS223Y07	TOP223YAI	EI28V	185-265	12	0.85	6	5.13					41	50	1570	3000
MTS225Y02	TOP225YAI	EI28V	85-265	12	4							48	60	600	3000
MTS246Y02	TOP246YAI	EI28V	85-265	45	1.2							54	90	500	3000
MTS227Y01	TOP227YAI	EI28V	85-265	12	5							60	90	500	3000
MTS245Y01	TOP245YAI	EI28V	185-265	24	25							60	85	500	3000
MTS245Y02	TOP245YAI	EI28V	175-265	24	2.5	5	0.7					63.5	85	500	3000
MTS104Y01	TOP104YAI	EI28V	90-132	10	0.01	27	2.5	6	0.05			68	75	627	3000
MTS246Y01	TOP246YAI	EI28V	195-265	19	5							95	125	500	3000
MTS225Y01	TOP225YAI	EI30V	200 - 255	28	2.14							60	100	1138	1000
MTS227Y04	TOP227YAI	EI33V	85-265	24	1.875	-24	1.875					90	90	750	3000
MTS227Y02	TOP227YAI	EI40V	190-265	25	6							150	150	650	3000
MTS104Y02	TOP104YAI	EL19H	40-60(DC)	15	1.67							25	25	319	3000
MTS222Y02	TOP222YAI	EL19V	180-260	5	1.5	3.6	0.15	2.5	0.02	-2.5	0.02	8.5	25	1500	3000
MTS223P03	TOP223P	EPC19	99-198	-48	0.02	-24	0.3	-48	0.015	-165	0.02	12.2	25	905	1500
MTS223Y08	TOP223YAI	EPC30	185-265	12	0.85	6	5.13					41	50	1570	3000
MTS223Y10	TOP223YAI	ERL28V	200-250	24	1.25							30	50	1333	3000
MTS227Y09	TOP227YAI	ERL28V	85-265	15	4.66							70	90	275	3000
MTS224Y05	TOP224YAI	ETD29H	92-132	12	0.3	8	4.5					40	75	1380	4800
MTS226Y02	TOP226YAI	ETD29V	85-265	12	2.5	65	0.5					62.5	75	391	3000
MTS226Y01	TOP226YAI	ETD34H	207-253	12	1.5	24	3					90	125	600	3000
MTS227Y03	TOP227YAI	ETD34H	195-265	10	10							100	150	600	3000
MTS227Y10	TOP227YAI	ETD34H	195-265	12.5	10							135	150	600	3000
MTS247Y01	TOP247YAI	ETD39H	207-253	33	4							132	165	683	3000
MTS227Y11	TOP221YAI	ETD39H	195-265	13.6	9.9							135	150	683	3000
MTS249Y02	TOP249YAI	ETD39H	85-265	29	6.2							180	180	683	3000
MTS249Y01	TOP249YAI	ETD44H	195-265	13.5	14.8							200	250	650	4000
MTS249Y03	TOP249YAI	ETD44H	195-265	33	7.5							247.5	250	650	3000



Power Transformers

Power Integration design reference matched to TNY, TOP, LNK, DAP IC

PART NUMBER	APPLICATIONS	Power integration		PACKAGE	Vin	Vout	MATCHED TO		
		design reference					IC NO.		
MGTDER016	Charger	DER016		EE13H	189-264Vac	7.5Vdc	LNK500	1.5	LinkSwitch ,Flyback
MGTDER048	Motor control	DER048		EE13H	85-265Vac	15/12Vdc	LNK304	1.6	LinkSwitch-TN ,Flyback
MGTDER015	Charger	DER015		EE13H	198-253Vac	3.6Vdc	LNK501	2.2	LinkSwitch ,Flyback
MGTDER003	Charger	DER003		EE13H	85-265Vac	6Vdc	TNY264	2.4	TinySwitch,Flyback
MGTDER012	Charger	DER012		EE13H	90-264Vac	6Vdc	LNK500	2.4	LinkSwitch ,Flyback
MGTDER038	Charger	DER038		EE13H	85-265Vac	5Vdc	LNK520	2.4	LinkSwitch ,Flyback
MGTDER075	Charger	DER075		EE13H	85-265Vac	5Vdc	LNK520	2.4	LinkSwitch ,Flyback
MGTEPR016	Charger	DAK-16A/EPR16	AN35	EE13H	85-265 Vac	5.5Vdc	LNK501	2.8	LinkSwitch ,Flyback
MGTEPR084	Charger	EPR84		EE13H	85-265Vac	5Vdc	TNY264	3.0	TinySwitch-II,Flyback
MGTDER002	Charger	DER002		EE13H	85-265Vac	18Vdc	LNK501	3.2	LinkSwitch ,Flyback
MGTDER033	Charger	DER033		EE13H	85-265Vac	6.5Vdc	TNY266	3.9	TinySwitch-II,Flyback
MGTEPR085A	Charger	DAK-85/EPR85 transformer A	AN39	EE16H	85-265 Vac	4 to 7.5Vdc	LNK562	1.3	LinkSwitch -LP ,Flyback
							LNK563	1.7	
							LNK564	2.0	
MGTEPR085B	Charger	DAK-85/EPR85 transformer B	AN39	EE16H	85-265 Vac	8 to 12Vdc	LNK562	1.3	LinkSwitch -LP ,Flyback
							LNK563	1.7	
							LNK564	2.0	
MGTDER014	Charger	DER014		EE16H	85-265Vac	5Vdc	LNK500	1.5	LinkSwitch ,Flyback
MGTEPR089	CV adapter	DAK-89/EPR89	AN40	EE16H	85-265Vac	6.2Vdc	LNK362	2.0	LinkSwitch-XT,Flyback
MGTDER042	Charger	DER042		EE16H	90-265Vac	4.5Vddc	LNK520	2.3	LinkSwitch ,Flyback
MGTEPR073A	Charger	DAK-73/EPR73	AN38	EE16H	85-265Vac	5.7Vdc	LNK354	2.3	LinkSwitch-HF,Flyback
MGTEPR073B	Charger(Remove Y Capacitor)	DAK-73/EPR73	AN38	EE16H	85-265Vac	5.7Vdc	LNK354	2.3	LinkSwitch-HF,Flyback
MGTDER004	Charger	DER004		EE16H	85-265Vac	6Vdc	TNY264	2.4	TinySwitch-II,Flyback
MGTEPR054A	Charger	DAK-54/EPR54		EE16H	85-265Vac	5.5Vdc	LNK520	2.8	LinkSwitch ,Flyback
MGTEPR054B	Charger(Simple)	DAK-54/EPR54		EE16H	85-265Vac	5.5Vdc	LNK520	2.8	LinkSwitch ,Flyback
MGTDER062	Charger	DER062		EE16H	85-265Vac	5Vdc	LNK363	3.0	LinkSwitch-XT,Flyback
MGTDER111	AC-Dc Power	DER111		EE16H	90-264Vac	4.5Vdc	LNK500	3.2	LinkSwitch ,Flyback
MGTDER035	Charger	DER035		EE16H	90-265Vac	5.5Vdc	TNY264	3.5	TinySwitch-II,Flyback
MGTDER041	LCDTVstand by	DER041		EE16H	80-288Vac	5/22Vdc	TNY263	3.7	TinySwitch-II,Flyback
MGTEPR015	Charger	EPR-15		EE16V	85-265Vac	12Vdc	TNY264	3.0	TinySwitch-II,Flyback
MGTDER057	Industrial	DER057		EE16V	90-265Vac	12Vdc	LNK501	3.0	LinkSwitch ,Flyback
MGTDER046	set-top box	DER046		EE16V	195-265Vac	2.5/3.3/12/33Vdc	TNY264	4.5	TinySwitch-II,Flyback
MGTEPR009	Home appliance	DAK-7/EPR9		EE16V	85-265Vac	5/12Vdc	TNY266	5.0	TinySwitch-II,Flyback
MGTDER108	Network interface	DER108		EE16V	90-265Vac	24Vdc	TNY267	7.2	TinySwitch-II,Flyback
MGTDER110	AC-Dc Power	DER110		EE16V	90-265Vac	5/24 Vdc	TNY266	7.3	TinySwitch-II,Flyback
MGTEPR012B	stand by	DAK-12/EPR12	AN30	EE16V	90-132Vac	5Vdc	TNY266	10.0	TinySwitch-II,Flyback
MGTEPR031B	stand by	DAK-31/EPR31	AN30	EE16V	90-132Vac	5Vdc	TNY266	10.0	TinySwitch-II,Flyback
MGTDER011	PC standby	DER011		EE19H	120-420Vdc	5/13 Vdc	TNY268	15.0	TinySwitch-II,Flyback
MGTEPR091	AC-Dc Power	DAK-91/EPR91		EE25V	85-265Vac	12Vdc	TNY278	12.0	TinySwitch-III,Flyback
MGTEPR033	LCD Monitor	DAK-33/EPR33		EE2821	90-265Vac	12Vdc	TOP247	45.0	TopSwitch-GX,Flyback
MGTDER106	AC-Dc Power	DER106		EEL19	90-265Vac	24Vdc	TOP244	15.0	TopSwitch-GX,Flyback
MGTDER021	DVD player	DER021		EEL22V	90-265Vac	3.4/12/5/6/14/40	TOP245	11.0	TopSwitch-GX,Flyback
MGTDER099	set-top box	DER099		EEL22V	160-275Vac	3.3/5/9 Vac	TOP244	17.4	TopSwitch-GX,Flyback
MGTDER010	DVD player	DER010		EEL25H	90-265Vac	5/3.3/12/-12Vdc	TNY266	4.9	TinySwitch-II,Flyback
MGTDER007	DVD player	DER007		EEL25H	85-265Vac	5/3.3/12/-23/3Vdc	TNY267	9.0	TinySwitch-II,Flyback
MGTDER008	DVD player	DER008		EEL25H	85-265Vac	5/3.3/12/-22/4Vdc	TNY267	9.0	TinySwitch-II,Flyback
MGTDER009	DVD player	DER009		EEL25H	90-265Vac	5/3.3/12/-12Vdc	TNY267	9.0	TinySwitch-II,Flyback
MGTDER005	DVD player	DER005		EEL25H	200-265Vac	3.3/5/12/-12	TNY267	11.0	TinySwitch-II,Flyback
MGTEPR032	set-top box	DAK-32/EPR32	AN29	EEL25H	85-265Vac	3.3/5/12/-24Vdc	TOP245	20.0	TopSwitch-GX,Flyback
MGTDER040	DVD player	DER040		EEL25H	90-265Vac	12/5/3.3/-22Vdc	TOP246	21.0	TopSwitch-GX,Flyback
MGTEPR029	DVD player	EPR29		EEL25V	85-265 Vac	3.3/5/12/-12	TNY268	11.0	TinySwitch-II,Flyback
MGTDER095	DVD player	DER095		EER28H	90-265Vac	9.7Vdc	TOP245	30.0	TopSwitch-GX,Flyback
MGTDER094	LCD Monitor	DER094		EER28H	90-265Vac	5/12Vdc	TOP246	46.0	TopSwitch-GX,Flyback

Power Transformers

Power Integration design reference matched to TNY, TOP, LNK, DAP IC

PART NUMBER	APPLICATIONS	Power integration		PACKAGE	Vin	Vout	MATCHED TO IC NO.	Pout (Watt)	Topology
		design reference							
MGTDER044	Digital video	DER044		EER28LH	85-265Vac	3.3/5/12/23/30	TOP246	41.0	TopSwitch-GX,Flyback
MGTDER098	Digital video	DER098		EER28LH	85-265Vac	3.3/5/12/23/30	TOP246	41.0	TopSwitch-GX,Flyback
MGTDER025	LCD Monitor	DER025		EER28LH	90-265Vac	20Vdc	TOP247	60.0	TopSwitch-GX,Flyback
MGTDER018	DVD player	DER018		EER28LV	90-265Vac	3.4/3.5/5.1/12/33/-5.3/-22	TOP245	17.0	TopSwitch-GX,Flyback
MGTEPR013	set-top box	EPR13		EER28LV	185-265Vac	3.3/5/12/18/30Vdc	TOP246	43.0	TopSwitch-GX,Flyback
MGTEPR012A	Main transformer	DAK-12/EPR12		EER28LV	185-265Vac	3.3/5/12Vdc	TOP247	145.0	TopSwitch-GX,Forward
MGTEPR031A	Main transformer	DAK-31/EPR31	AN30	EER28LV	180-265Vac	3.3/5/12/-12Vdc	TOP249	180.0	TopSwitch-GX,Forward
MGTDER053	AC-Dc Power	DER053		EER35	85-265Vac	12/14 Vdc	TOP247	20.0	TopSwitch-GX,Flyback
MGTDER036	set-top box	DER036		EER35H	180-265Vac	5/6.8/12/-10 Vdc	TOP245	41.8	TopSwitch-GX,Flyback
MGTDER013	Charger	DER013		EF12.6H	90-265Vac	5.5Vdc	LNK501	2.2	LinkSwitch ,Flyback
MGTDER039	Charger	DER039		EF12.6H	90-265Vac	5.5Vdc	LNK520	2.5	LinkSwitch ,Flyback
MGTEPR014	AC adapter	DAK-14A/EPR14		EF12.6H	85-265Vac	9Vdc	TNY264	3.0	TinySwitch-II,Flyback
MGTDER001	Charger	DER001		EF16H	85-265Vac	5.9Vdc	LNK500	2.4	LinkSwitch ,Flyback
MGTDER006	Charger	DER006		EF16H	85-265Vac	5.1V	TNY266	3.6	TinySwitch-II,Flyback
MGTDER052	Refrigerator	DER052		EF16H	85-275Vac	12/9/5 Vdc	TNY263	3.9	TinySwitch-II,Flyback
MGTDER055	set-top box	DER055		EF20H	160-265Vac	9/5/3.3 Vdc	TNY267	10.5	TinySwitch-II,Flyback
MGTDER034	set-top box	DER034		EF20H	195-265Vac	2.5/3.3/5/9/32Vdc	TOP242	13.0	TopSwitch-GX,Flyback
MGTDER026	LED driver	DER026		EF20H	108-132Vac	20Vdc	TOP246	14.0	TopSwitch-GX,Flyback
MGTDER105	AC-Dc Power	DER105		EF20H	207-400Vac	14/5 Vdc	TOP243	19.3	TopSwitch-GX,Flyback
MGTEPR010	Charger	EPR10		EF20V	85-265Vac	14Vdc	TOP233	15.0	TopSwitch-FX,Flyback
MGTDER023	set-top box	DER023		EF25H	195-265Vac	3.3/2.5/5/6.6/12Vdc	TOP242	13.0	TopSwitch-GX,Flyback
MGTDER022	set-top box	DER022		EF25H	98-135Vav	1.8/3.3/7/17/22Vdc	TOP244	16.0	TopSwitch-GX,Flyback
MGTDER051	set-top box	DER051		EF25H	195-265Vac	1.8/3.3/5/12	TOP243	16.0	TopSwitch-GX,Flyback
MGTEPR034	AC-Dc Power	DAK-34/EPR34		EF25V	85-265Vac	12Vdc	TOP245	30.0	TopSwitch-GX,Flyback
MGTDER050	set-top box	DER050		EF25V	90-264Vac	1.8/3.3/5/12/18/23	TOP245	30.0	TopSwitch-GX,Flyback
MGTDER019	set-top box	DER019		EF30H	195-265Vac	3.3/5/12/20Vdc	TOP245	32.0	TopSwitch-GX,Flyback
MGTDER096	VoIP phone	DER096		EFD20H	37-57Vdc	3.3/5/12	DAP423	10.0	DPASwitch,Flyback
MGTDER107	AC-Dc Power	DER107		EFD20H	90-300Vac	6Vdc	TOP245	10.0	TopSwitch-GX,Flyback
MGTDER032A	Main transformer	DER032		EFD20H	36-75Vdc	3.3/5/-5 Vdc	DPA424	22.0	DPASwitch,Forward
MGTDER032B	Inductor	DER032		EFD20H	36-75Vdc	3.3/5/-5 Vdc	DPA424	22.0	DPASwitch,Forward
MGTDER029A	Main transformer	DER029		EFD20S	36-72Vdc	6.7/11.1Vdc	DPA425	33.0	DPASwitch,Forward
MGTDER029B	Inductor	DER029		EFD20S	36-72Vdc	6.7/11.1Vdc	DPA425	33.0	DPASwitch,Forward
MGTDER020	Dc-Dc power	DER020		EFD25H	36-75Vdc	12Vdc	DPA426	60.0	DPASwitch,Flyback
MGTDER027	LCD Monitor	DER027		EFD30H	100-265Vac	5/13Vdc	TOP246	48.0	TopSwitch-GX,Flyback
MGTDER060	AC-Dc Power	DER060		EI22V	90-265Vac	3.5Vdc	TNY268	8.8	TinySwitch-II,Flyback
MGTEPR018	Digital modem	DAK-18/EPR18		EI25V	85-265 Vac	3.3/5/30 Vdc	Top243	10.0	TopSwitch-GX,Flyback
MGTDER028	Refrigerator	DER028		EI25V	85-265Vac	5/12/24Vdc	TOP244	15.0	TopSwitch-GX,Flyback
MGTDER100	LED lighting	DER100		EI25V	90-265Vac	8Vdc	TOP245	24.0	TopSwitch-GX,Flyback
MGTEPR068	Dc-Dc converter	DAK-68A/EPR68	AN29	ER14.5V	36-57Vdc	3.3Vdc	DAP423	6.6	DPASwitch,Flyback
MGTEPR071	Dc-Dc converter	DAK-71/EPR71		ER14.5V	36-75 Vdc	3.3Vdc	DAP423	6.6	DPASwitch,Flyback
MGTEPR011	Laptop adapter	EPR11		FPQ26/20	85-265Vac	19Vdc	TOP249	70.0	TopSwitch-GX,Flyback
MGTEPR021	DAP Switch	DAK-21/EPR21	AN31	Pot1408V	36-75 Vdc	5 Vdc	DAP424	30.0	DPASwitch,Forward
MGTDER024	IP phone	DER024		PT1408V	36-72Vdc	5/7.5/20Vdc	DAP424	15.0	DPASwitch,Forward



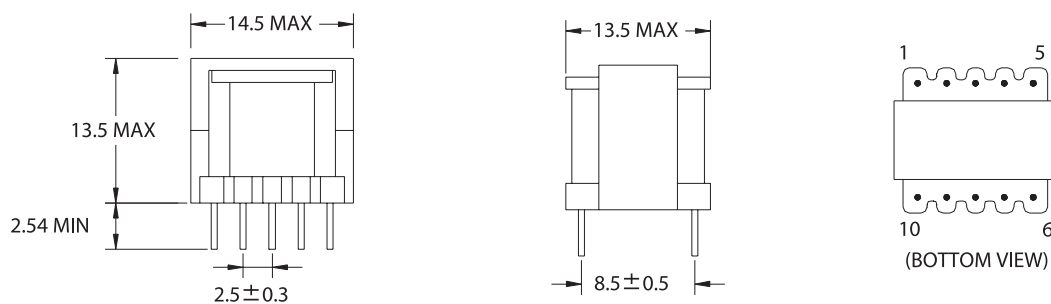
Power Transformers

OFF-LINE Switch Mode

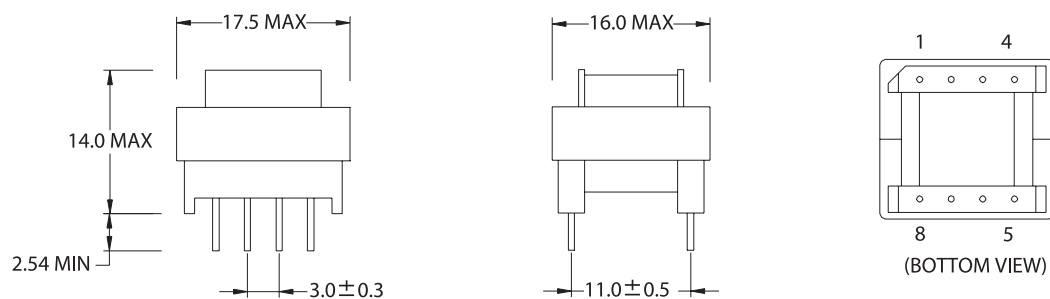
Mechanical Dimension (Only reference use)

- Outlines and data shown here of MGT existing standard part only, refining or special design to customer requirement is also available.

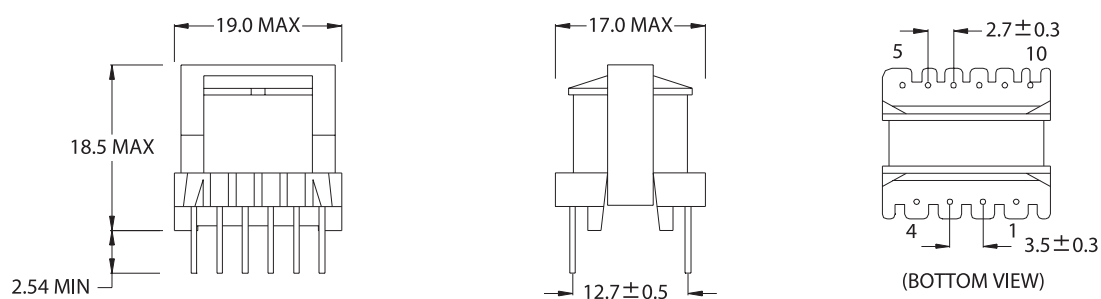
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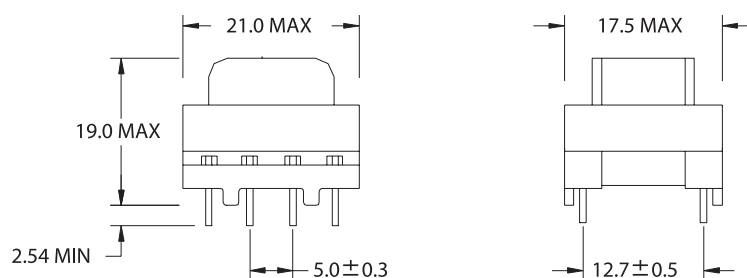
EE16H



EE16V



EE19H TYPE A



UNIT:mm



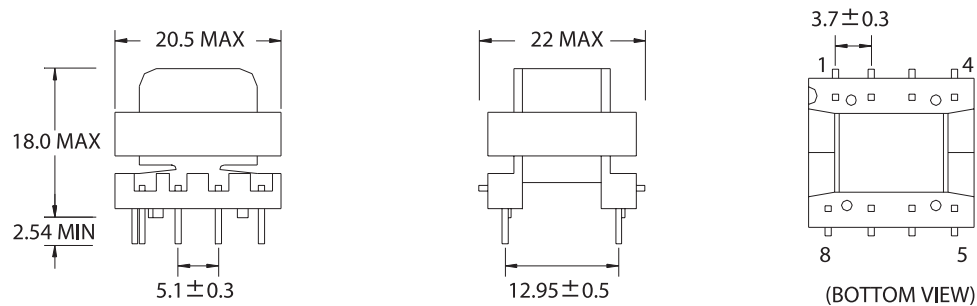
Power Transformers

OFF-LINE Switch Mode

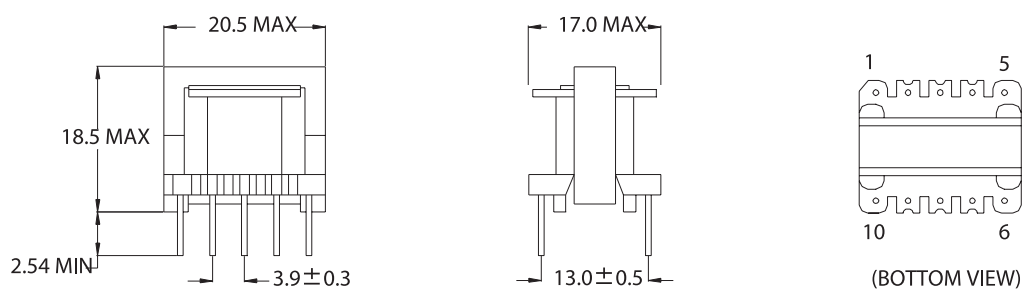
Mechanicals (Only reference use)

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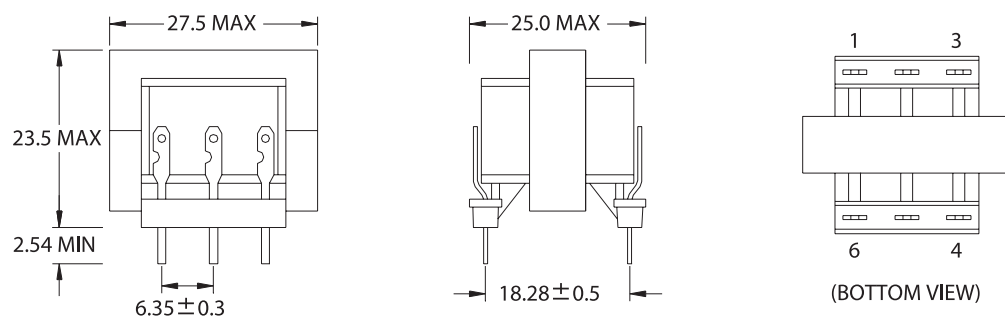
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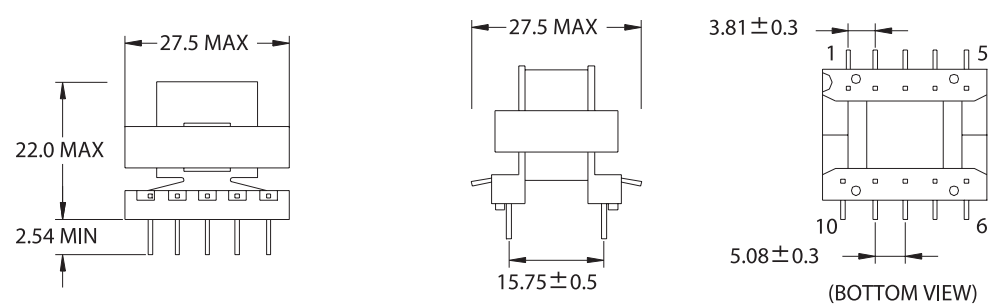
EE19V



EE24/25V



EE25H



UNIT:mm



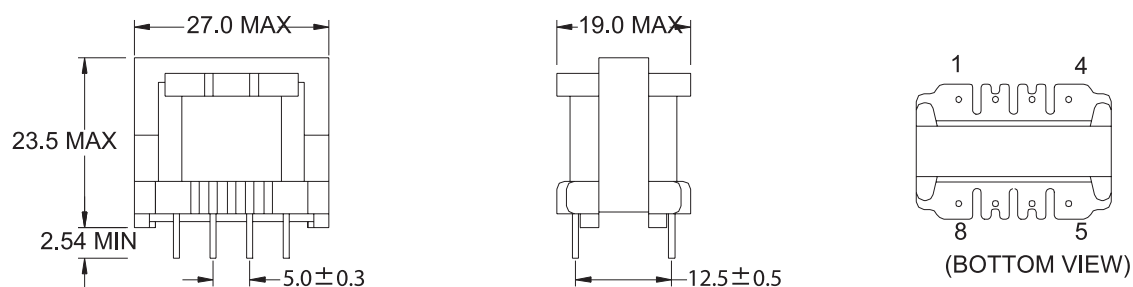
Power Transformers

OFF-LINE Switch Mode

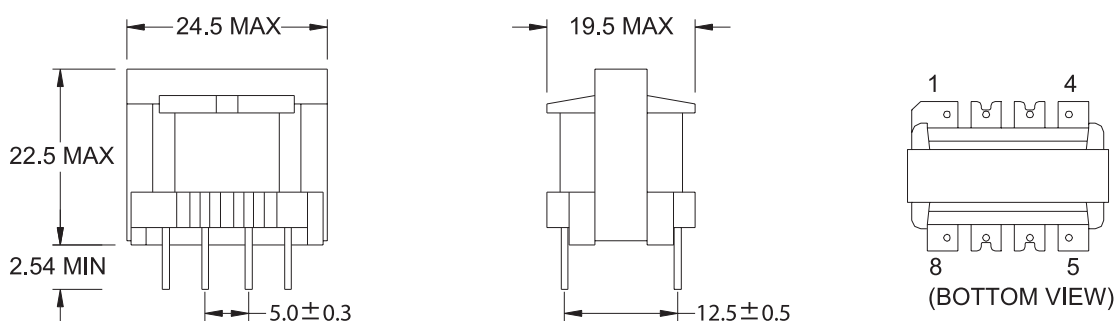
Mechanical Dimension (Only reference use)

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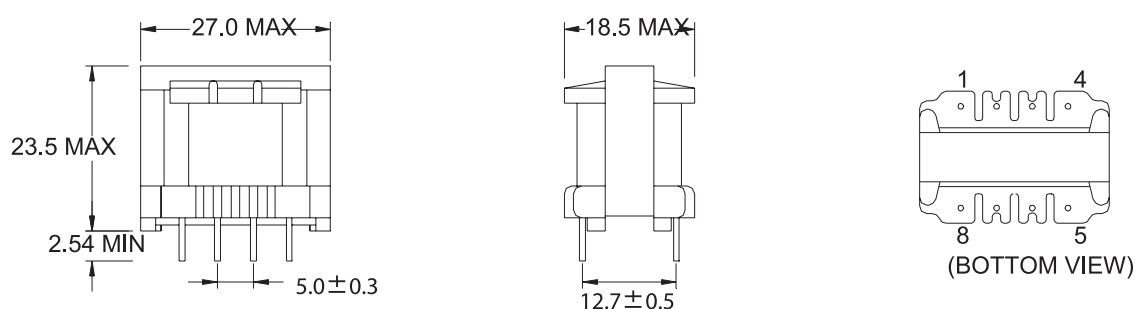
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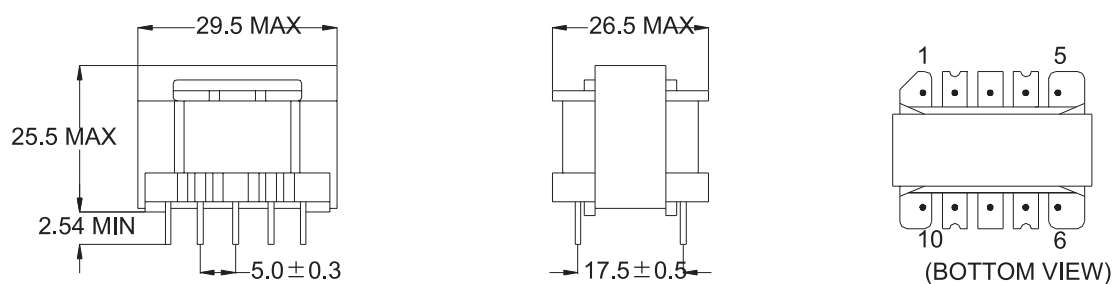
EI22V



EI25V



EI28V



UNIT:mm



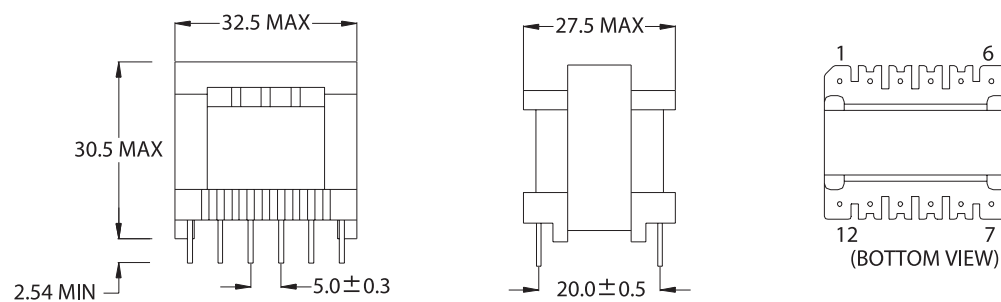
Power Transformers

OFF-LINE Switch Mode

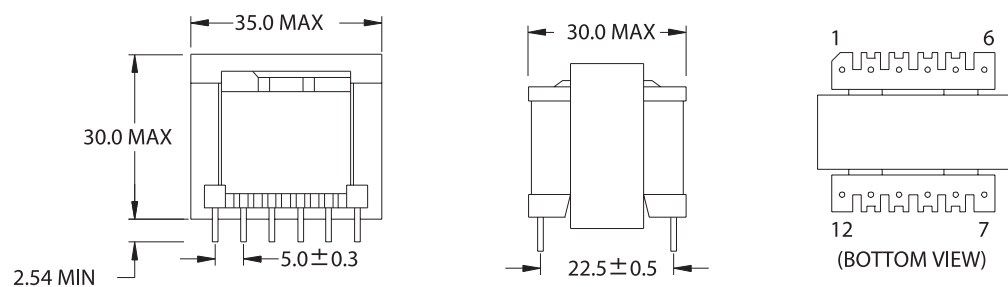
Mechanical Dimension (Only reference use)

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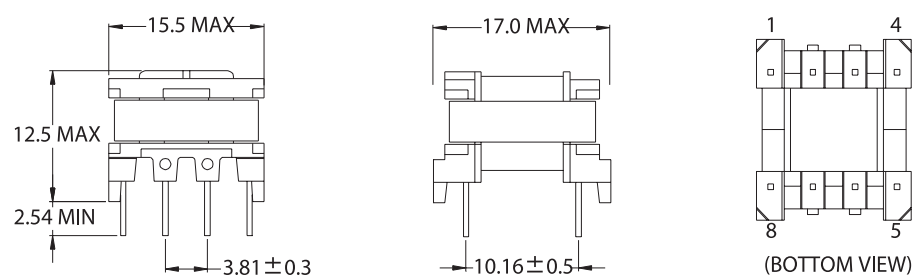
EI30V



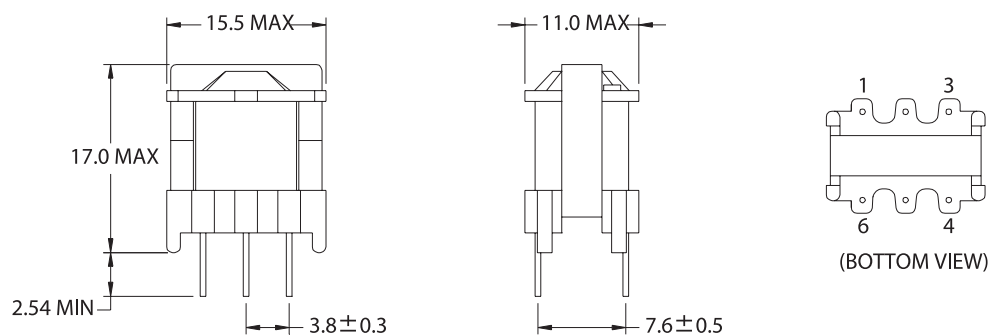
EI33V



EF12.6H



EF12.6V



UNIT:mm



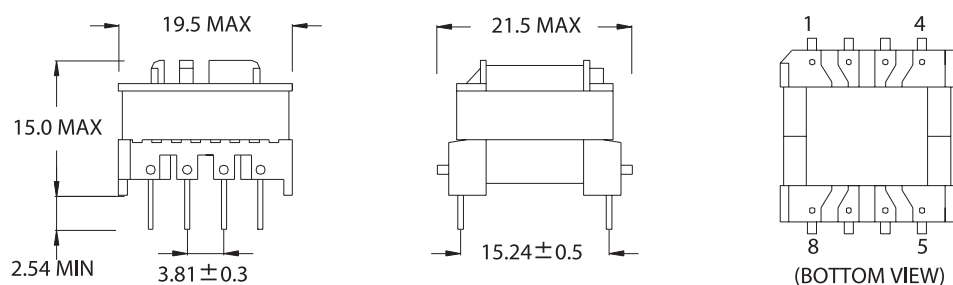
Power Transformers

OFF-LINE Switch Mode

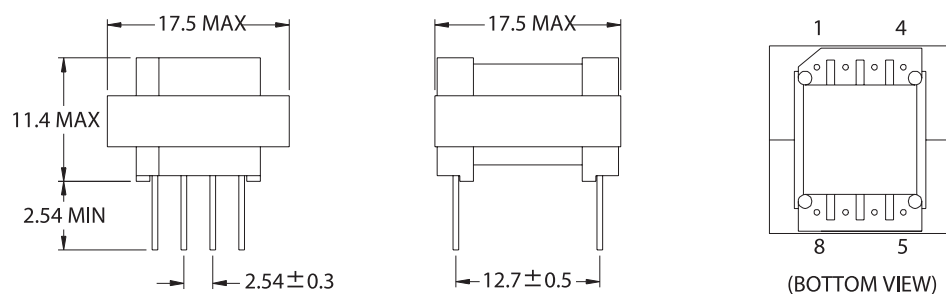
Mechanical Dimension (Only reference use)

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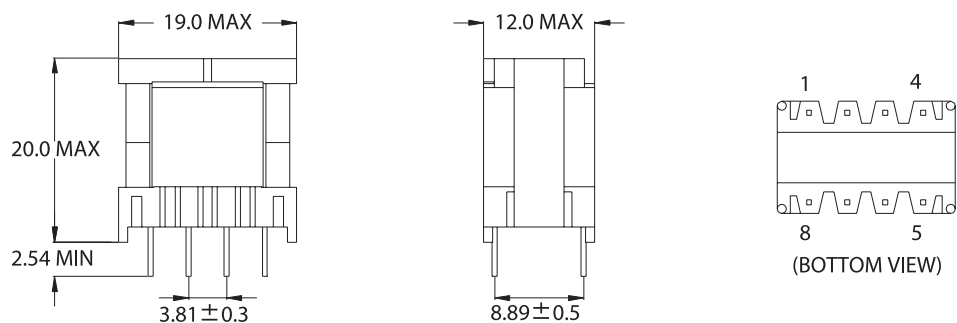
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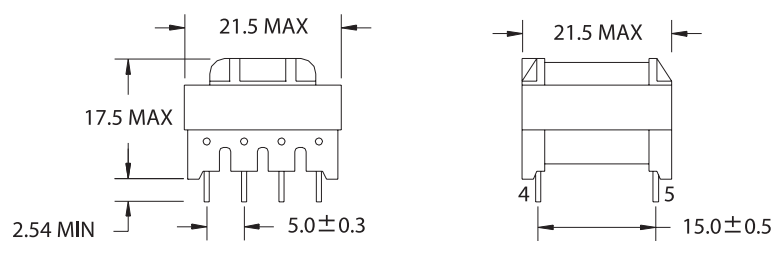
EF16H TYPE B



EF16V



EF20H



UNIT:mm



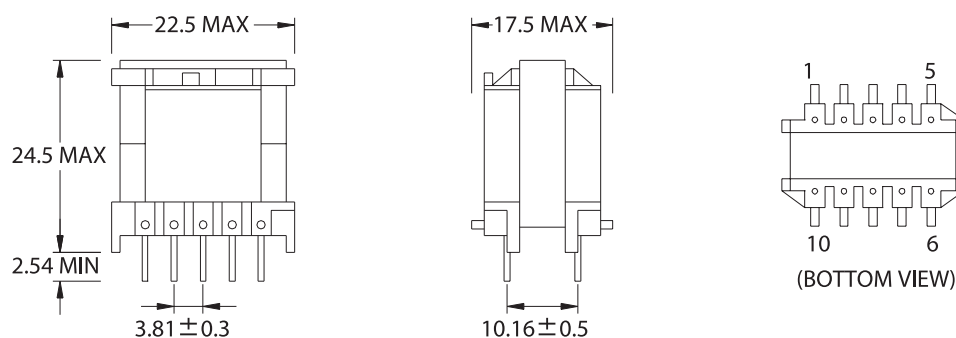
Power Transformers

OFF-LINE Switch Mode

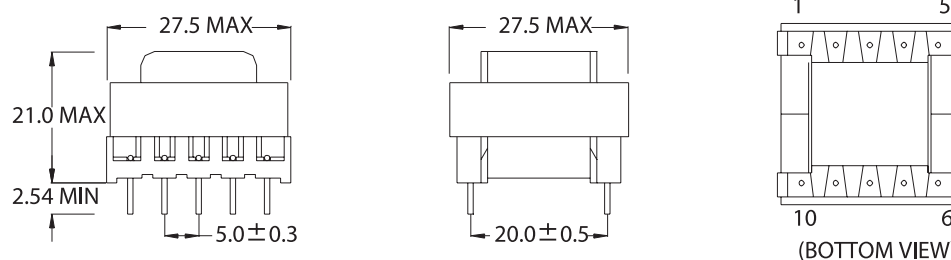
Mechanical Dimension (Only reference use)

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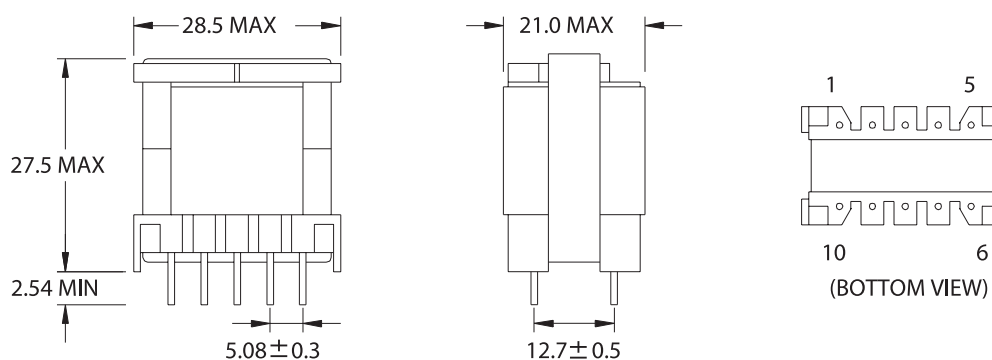
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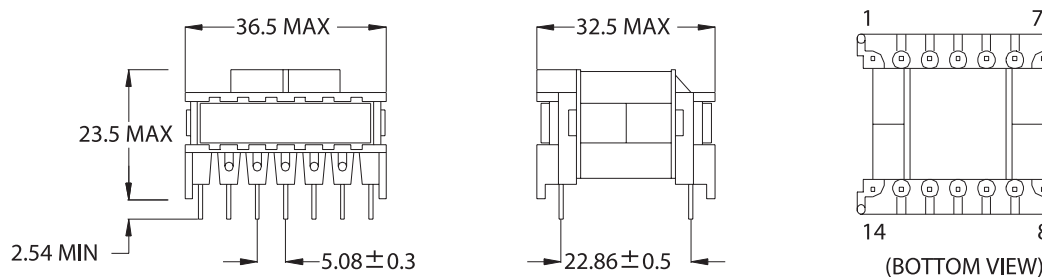
EF25H



EF25V



EF30H



UNIT:mm



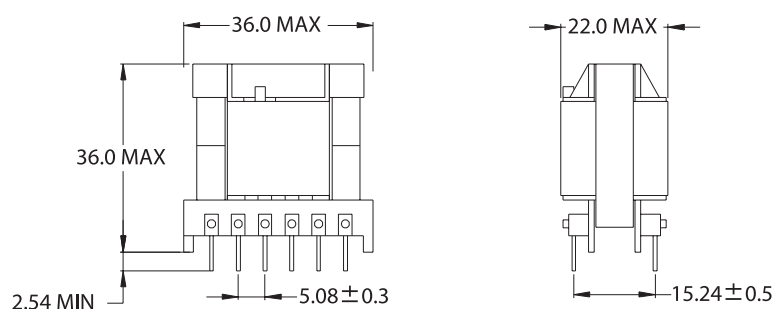
Power Transformers

OFF-LINE Switch Mode

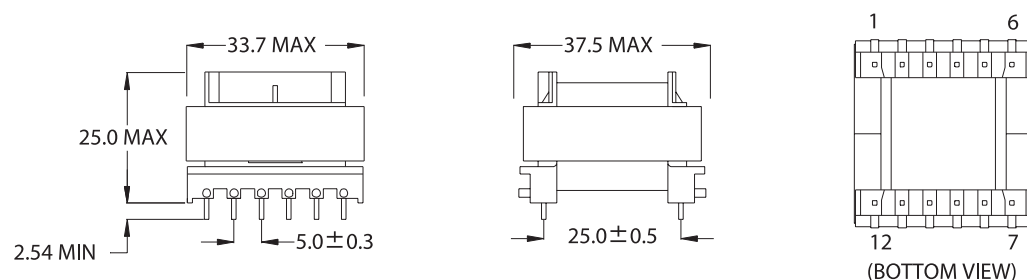
Mechanical Dimension (Only reference use)

- Outlines and data shown here of MGT existing standard part only, refining or special design to customer requirement is also available.

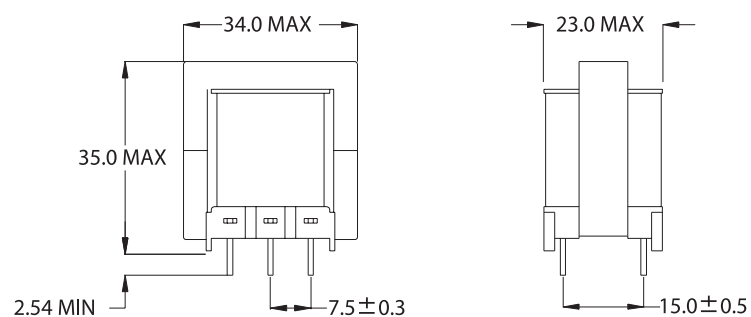
EF30V



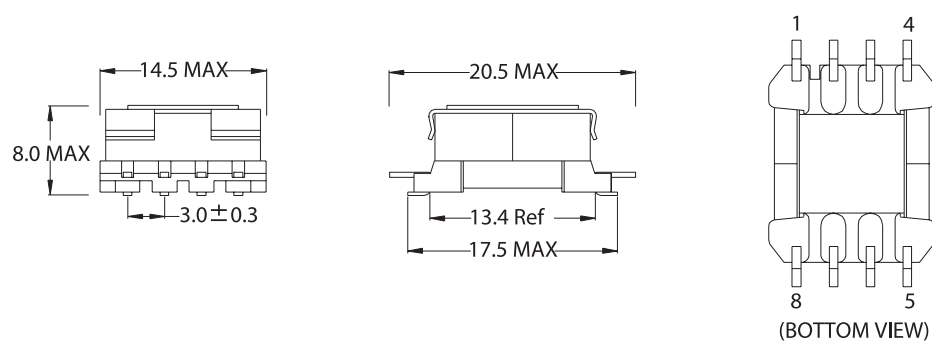
EF32H



EF32V



EFD12 SMD



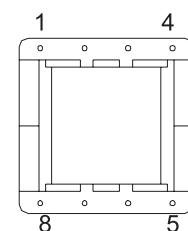
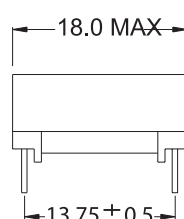
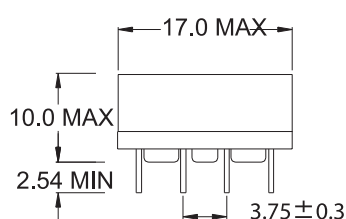
Power Transformers

OFF-LINE Switch Mode

Mechanical Dimension (Only reference use)

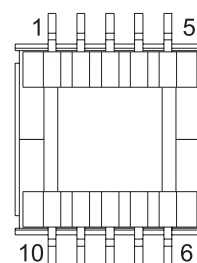
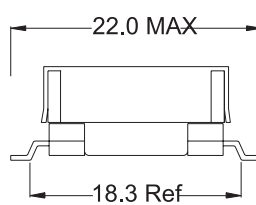
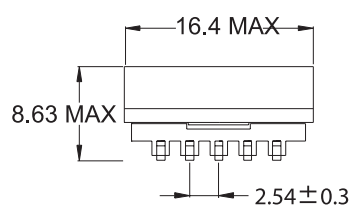
- Outlines and data shown here of MGT existing standard part only, refining or special design to customer requirement is also available.

EFD15 THRU-HOLE



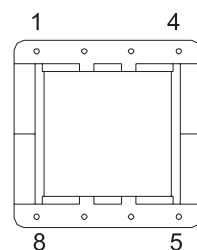
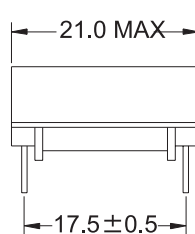
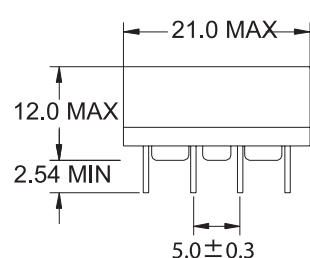
(BOTTOM VIEW)

EFD15 SMD



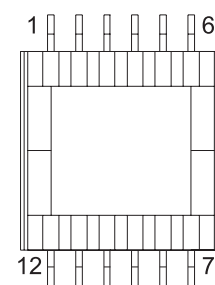
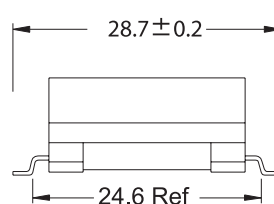
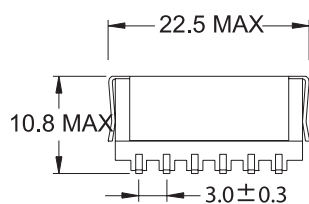
(BOTTOM VIEW)

EFD20 THRU-HOLE



(BOTTOM VIEW)

EFD20 SMD



(BOTTOM VIEW)

UNIT:mm



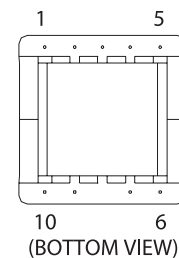
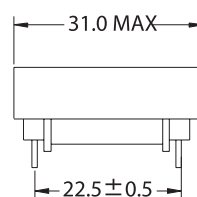
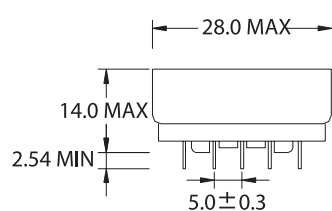
Power Transformers

OFF-LINE Switch Mode

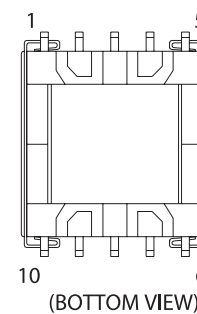
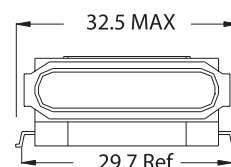
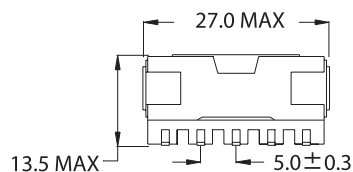
Mechanical Dimension (Only reference use)

- Outlines and data shown here of MGT existing standard part only, refining or special design to customer requirement is also available.

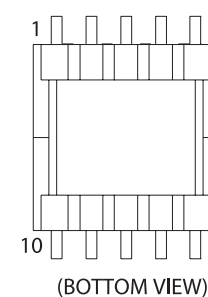
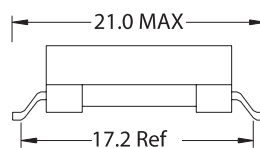
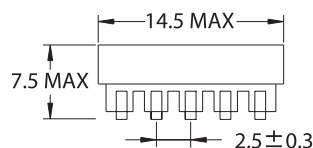
EFD25 THRU-HOLE



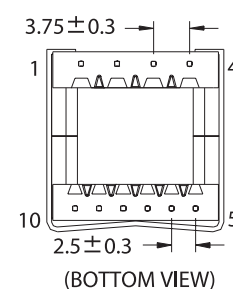
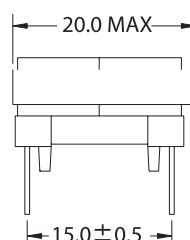
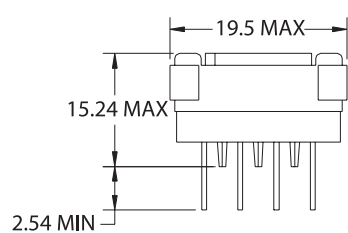
EFD25 SMD



EPC13 SMD



EPC17 THRU-HOLE



UNIT:mm



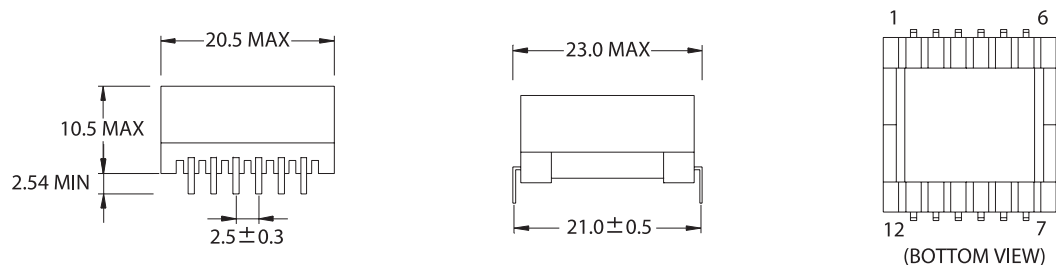
Power Transformers

OFF-LINE Switch Mode

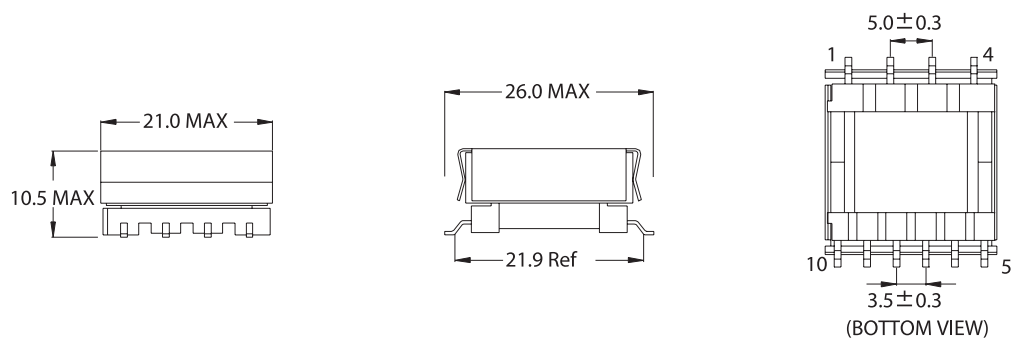
Mechanical Dimension (Only reference use)

- Outlines and data shown here of MGT existing standard part only, refining or special design to customer requirement is also available.

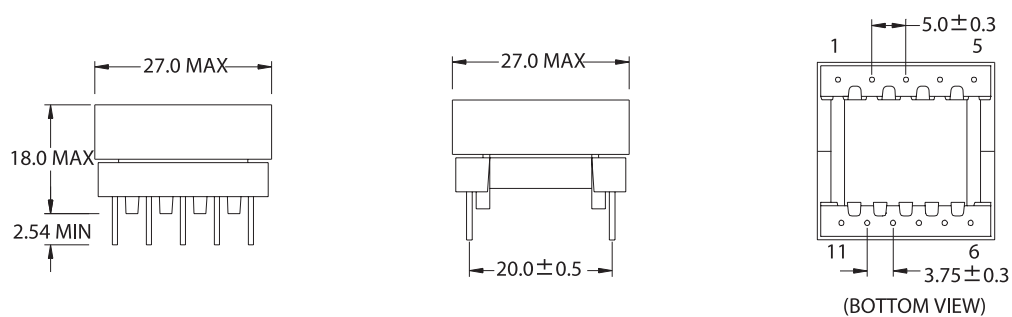
EPC19 THRU-HOLE



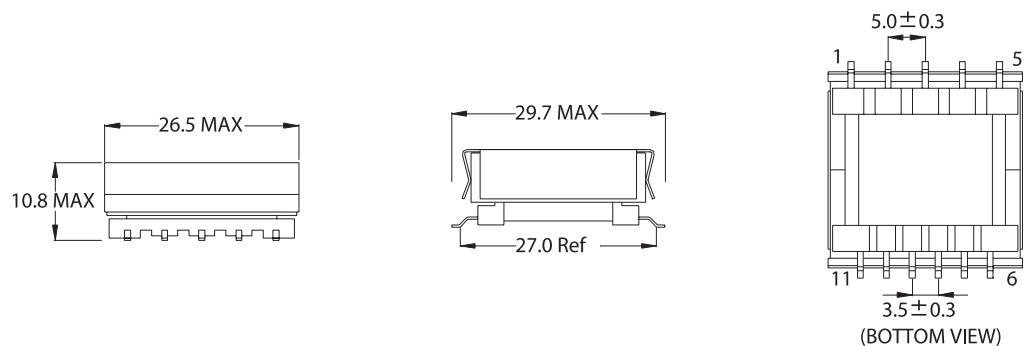
EPC19 SMD



EPC25 THRU-HOLE



EPC25 SMD



UNIT:mm



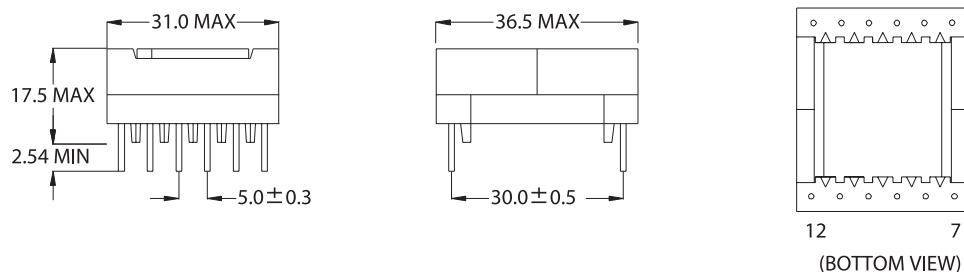
Power Transformers

OFF-LINE Switch Mode

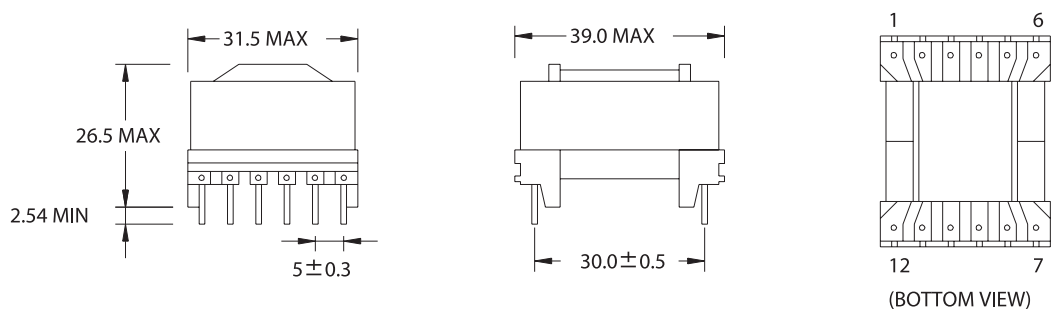
Mechanical Dimension (Only reference use)

- Outlines and data shown here of MGT existing standard part only, refining or special design to customer requirement is also available.

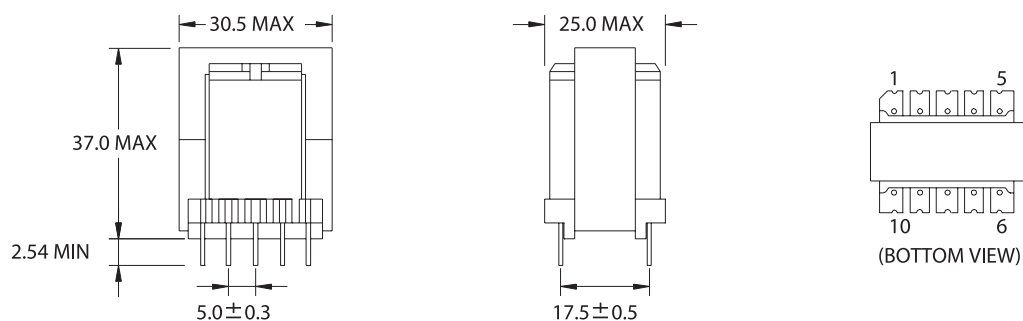
EPC30 THRU-HOLE



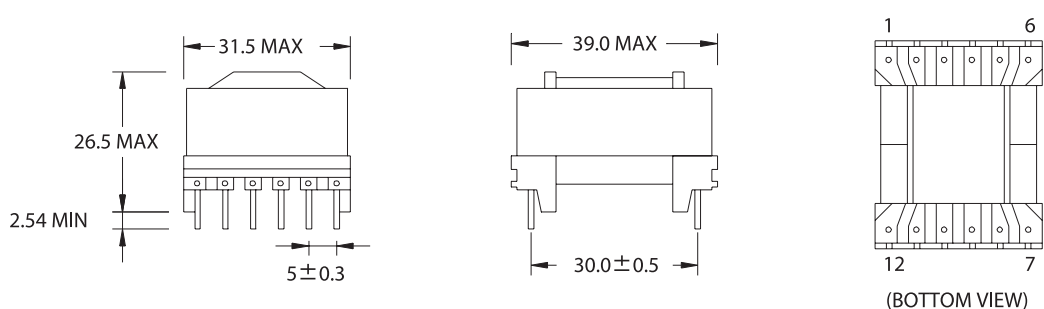
EER28H



EER28V



EER28LH



UNIT:mm



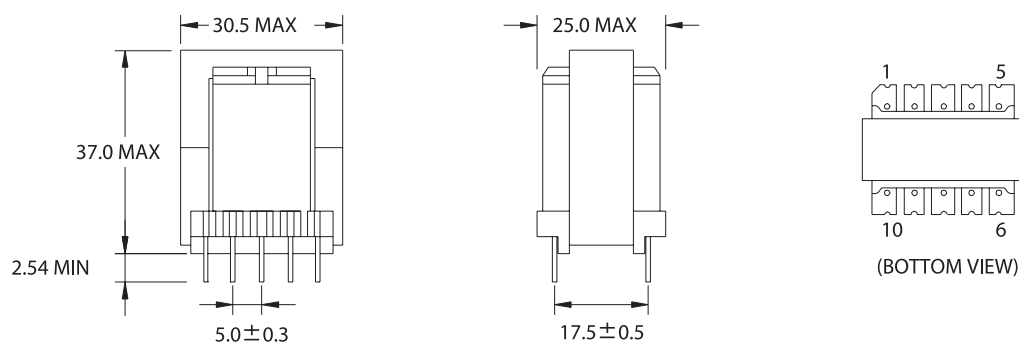
Power Transformers

OFF-LINE Switch Mode

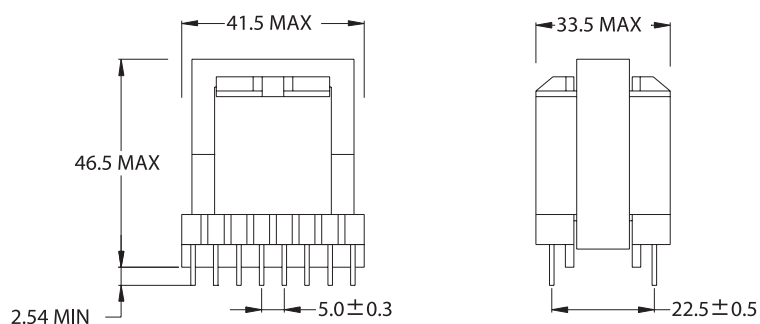
Mechanical Dimension (Only reference use)

- Outlines and data shown here of MGT existing standard part only, refining or special design to customer requirement is also available.

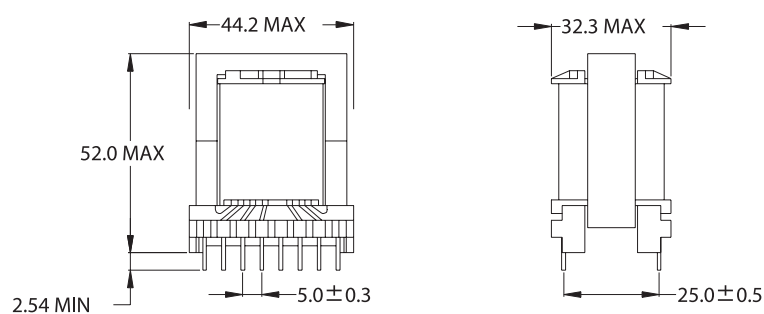
EER28LV



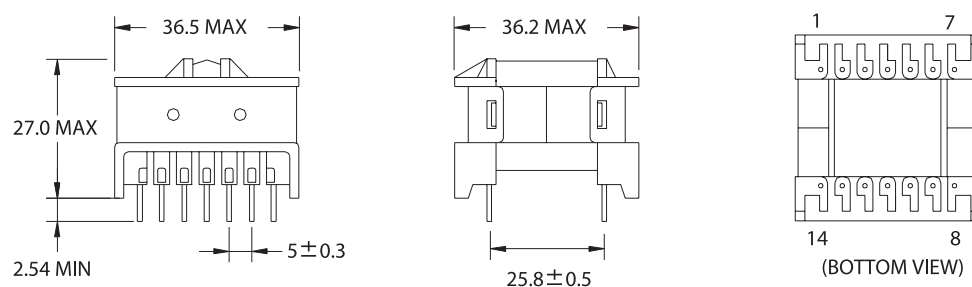
EER35LV



EER39LV



ETD29H



UNIT:mm



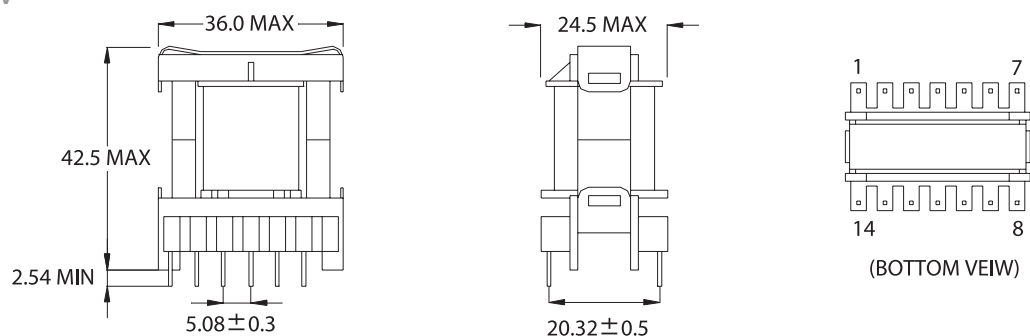
Power Transformers

OFF-LINE Switch Mode

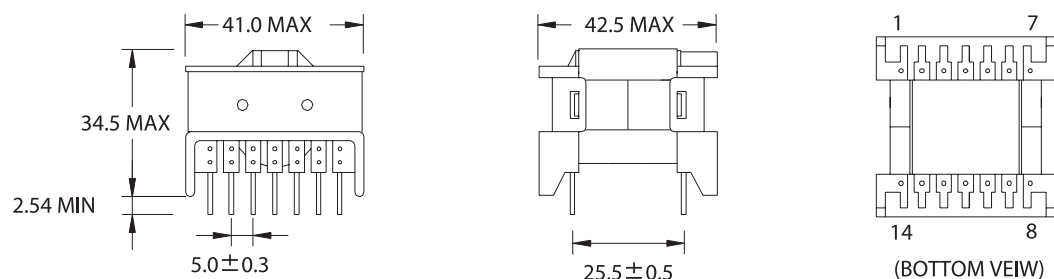
Mechanical Dimension (Only reference use)

- Outlines and data shown here of MGT existing standard part only, refining or special design to customer requirement is also available.

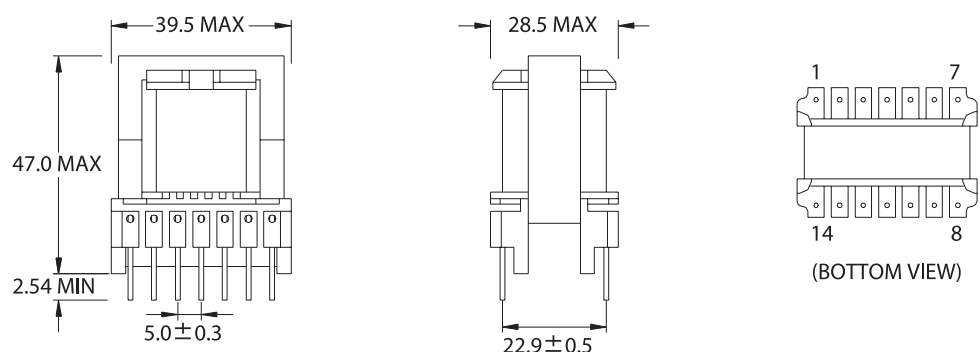
ETD29V



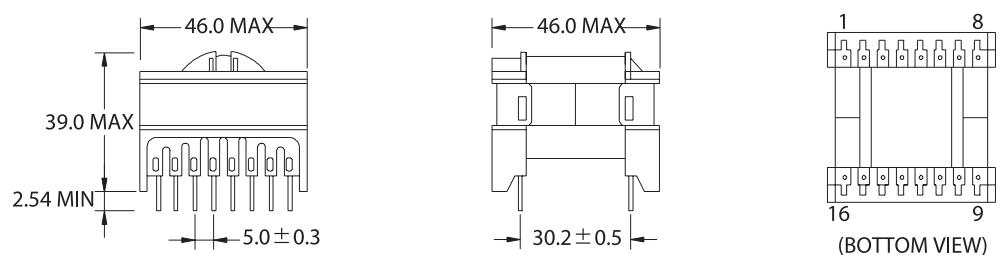
ETD34H



ETD34V



ETD39H



UNIT:mm



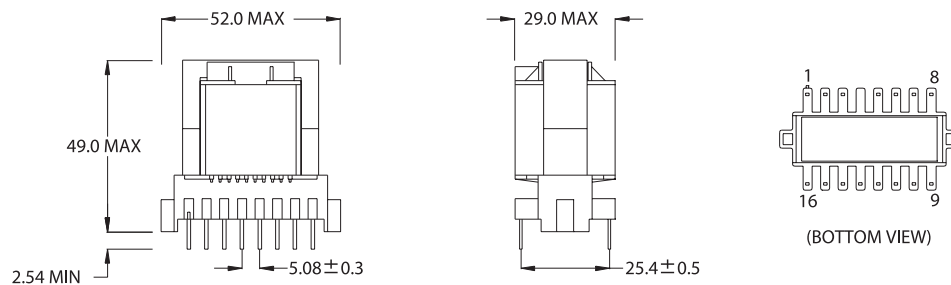
Power Transformers

OFF-LINE Switch Mode

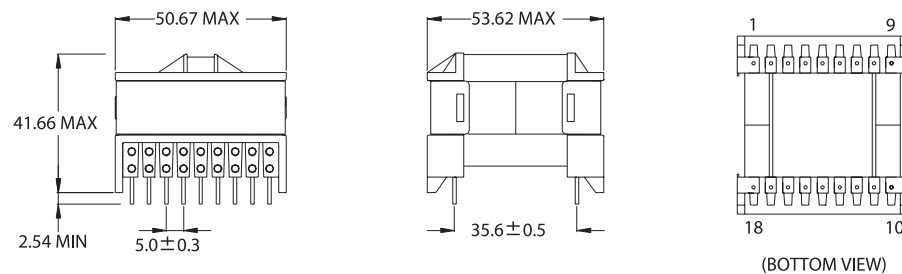
Mechanical Dimension (Only reference use)

- Outlines and data shown here of MGT existing standard part only, refining or special design to customer requirement is also available.

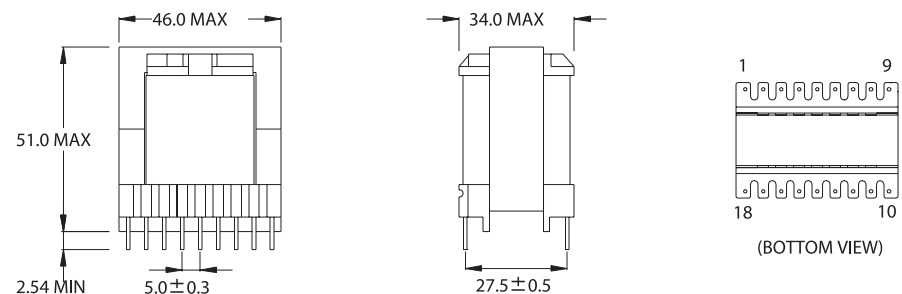
ETD39V



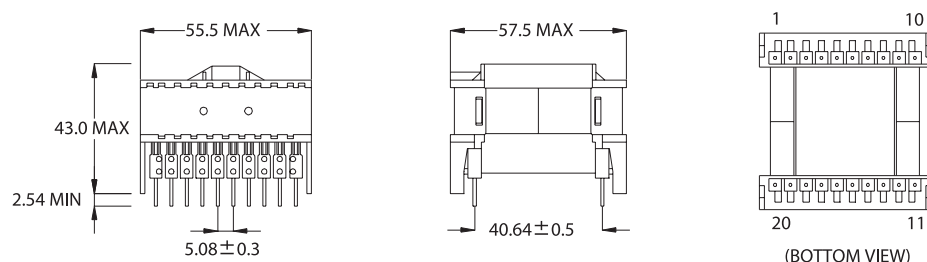
ETD44H



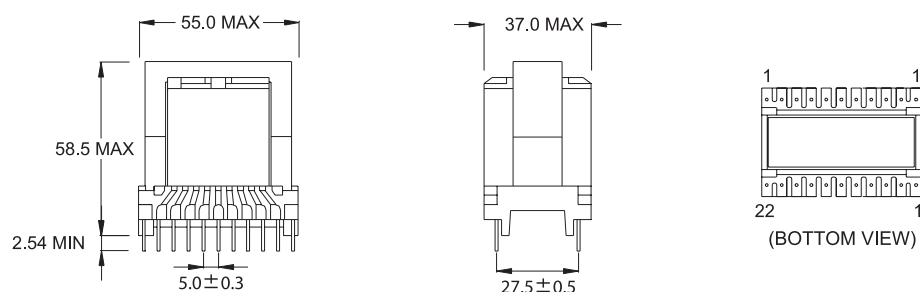
ETD44V



ETD49H



ETD49V



UNIT:mm



Power Transformers

OFF-LINE Switch Mode

CUSTOMER INPUTS

Customer specification on circuit parameters listed below will be helpful to the design of the Switch Mode Power Transformer.

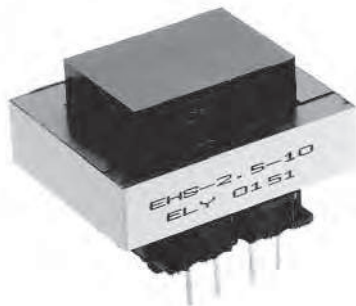
1. Input voltage range (V_{in}).
2. Output power (P_o).
3. Output voltage (V_o).
4. Output current range (I_o).
5. Switching frequency (F).
6. Temperature rise ($^{\circ}\text{C}$).
7. Mechanical dimension ($L \times W \times H$)(mm).
8. Safety & insulation system requirement.



MHS SERIES

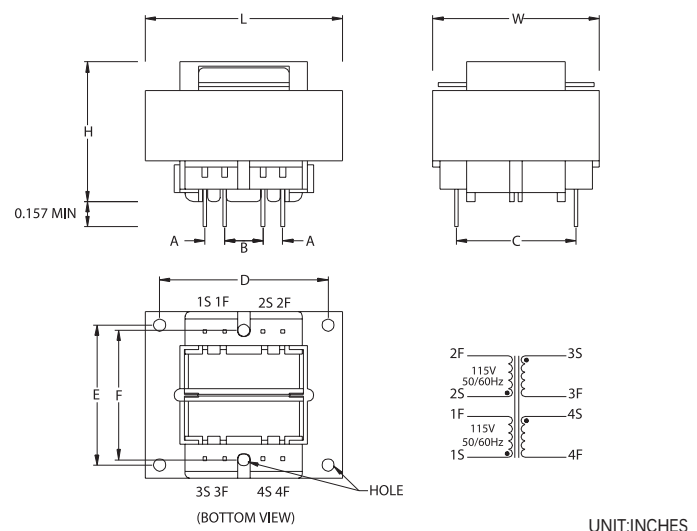
Universal Series Power Transformers

® E189543
E186547



- The MHS series of universal Transformers is designed and built to meet U.S. and international safety standards.
- These transformers are available in both PC and chassis-mount construction.
- With power ratings of 2.5VA to 56VA, these transformers are built on dual-bobbins with insulating shrouds to provide 4000V RMS isolation between primary and secondary.
- The non-concentric construction reduces primary to secondary capacitance.

Mechanical Dimensions:



VA	WT. (lb)	L ±0.04	W ±0.04	H ±0.04	A ±0.012	B ±0.012
2.5	0.25	1.634	1.320	1.125	.200	.250
5.0	0.37	1.634	1.320	1.375	.200	.400
10.0	0.53	1.910	1.600	1.375	.200	.400
20.0	0.90	2.265	1.890	1.625	.400	.400
30.0	1.15	2.625	2.195	1.562	.550	.275
56.0	1.70	3.030	2.520	1.812	.600	.300

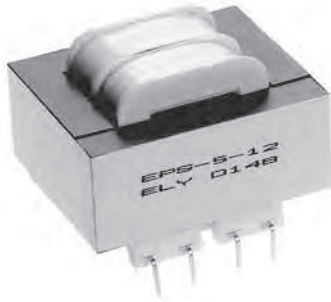
VA	C ±0.02	D ±0.04	E ±0.04	F ±0.04	PIN DIM ±0.006	HOLE ±0.02
2.5	1.000	----	----	1.062	.025 SQ	0.126
5.0	1.000	----	----	1.062	.025 SQ	0.126
10.0	1.140	----	----	1.260	.038 SQ	0.126
20.0	1.480	----	----	1.500	.038 SQ	0.150
30.0	1.680	2.20	1.732	----	.045 SQ	0.177
56.0	1.900	2.52	2	----	.045 SQ	0.197



MPS[®] SERIES

Split Bobbin Power Transformers

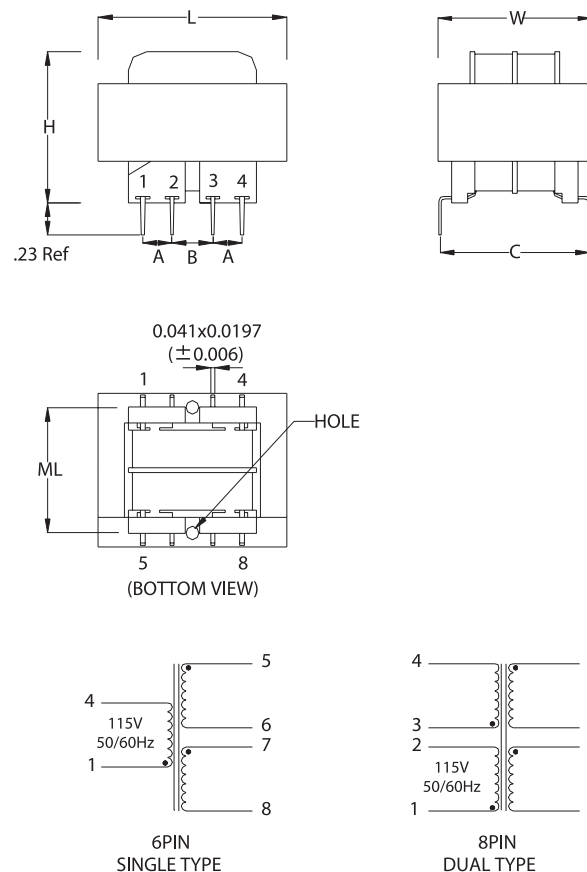
UL® E149179
E186547



- High isolation – 2500v Hipot
- Low capacitance Coupling – Minimizes Line Noise and False Triggering
- 115V Single or 115/230V 50/60Hz Dual primary
- Dual Secondaries for either parallel or Series configuration.

Mechanical Dimensions:

Part Number		SECONDARY RATING (RMS)	
Single 115V 6 pin	Dual 115/230V 08 pin	SERIES	PARALLEL
MPS - 2 - 10	MPS-2-10-D	10V C.T. @ 0.11A	5V @ 0.22A
MPS - 3 - 10	MPS-3-10-D	10V C.T. @ 0.25A	5V @ 0.5A
MPS - 4 - 10	MPS-4-10-D	10V C.T. @ 0.6A	5V @ 1.2A
MPS - 5 - 10	MPS-5-10-D	10V C.T. @ 1.2A	5V @ 2.4A
MPS - 6 - 10	MPS-6-10-D	10V C.T. @ 2A	5V @ 4A
MPS - 7 - 10	MPS-7-10-D	10V C.T. @ 3.6A	5V @ 7.2A
MPS - 2 - 12	MPS-2-12-D	12.6V C.T. @ 0.09A	6.3V @ 0.18A
MPS - 3 - 12	MPS-3-12-D	12.6V C.T. @ 0.2A	6.3V @ 0.4A
MPS - 4 - 12	MPS-4-12-D	12.6V C.T. @ 0.5A	6.3V @ 1.0A
MPS - 5 - 12	MPS-5-12-D	12.6V C.T. @ 1.0A	6.3V @ 2.0A
MPS - 6 - 12	MPS-6-12-D	12.6V C.T. @ 1.6A	6.3V @ 3.2A
MPS - 7 - 12	MPS-7-12-D	12.6V C.T. @ 2.85A	6.3V @ 5.7A
MPS - 2 - 16	MPS-2-16-D	16V C.T. @ 0.07A	8V @ 0.14A
MPS - 3 - 16	MPS-3-16-D	16V C.T. @ 0.15A	8V @ 0.3A
MPS - 4 - 16	MPS-4-16-D	16V C.T. @ 0.4A	8V @ 0.8A
MPS - 5 - 16	MPS-5-16-D	16V C.T. @ 0.8A	8V @ 1.6A
MPS - 6 - 16	MPS-6-16-D	16V C.T. @ 1.25A	8V @ 2.5A
MPS - 7 - 16	MPS-7-16-D	16V C.T. @ 2.25A	8V @ 4.5A
MPS - 2 - 20	MPS-2-20-D	20V C.T. @ 0.055A	10V @ 0.11A
MPS - 3 - 20	MPS-3-20-D	20V C.T. @ 0.12A	10V @ 0.24A
MPS - 4 - 20	MPS-4-20-D	20V C.T. @ 0.3A	10V @ 0.6A
MPS - 5 - 20	MPS-5-20-D	20V C.T. @ 0.6A	10V @ 1.2A
MPS - 6 - 20	MPS-6-20-D	20V C.T. @ 1A	10V @ 2A
MPS - 7 - 20	MPS-7-20-D	20V C.T. @ 1.8A	10V @ 3.6A
MPS - 2 - 24	MPS-2-24-D	24V C.T. @ 0.045A	12V @ 0.09A
MPS - 3 - 24	MPS-3-24-D	24V C.T. @ 0.1A	12V @ 0.2A
MPS - 4 - 24	MPS-4-24-D	24V C.T. @ 0.25A	12V @ 0.5A
MPS - 5 - 24	MPS-5-24-D	24V C.T. @ 0.5A	12V @ 1.0A
MPS - 6 - 24	MPS-6-24-D	24V C.T. @ 0.8A	12V @ 1.6A
MPS - 7 - 24	MPS-7-24-D	24V C.T. @ 1.5A	12V @ 3.0A
MPS - 2 - 28	MPS-2-28-D	28V C.T. @ 0.04A	14V @ 0.08A
MPS - 3 - 28	MPS-3-28-D	28V C.T. @ 0.085A	14V @ 0.17A
MPS - 4 - 28	MPS-4-28-D	28V C.T. @ 0.2A	14V @ 0.4A
MPS - 5 - 28	MPS-5-28-D	28V C.T. @ 0.42A	14V @ 0.84A
MPS - 6 - 28	MPS-6-28-D	28V C.T. @ 0.7A	14V @ 1.4A
MPS - 7 - 28	MPS-7-28-D	28V C.T. @ 1.3A	14V @ 2.6A
MPS - 2 - 36	MPS-2-36-D	36V C.T. @ 0.03A	18V @ 0.06A
MPS - 3 - 36	MPS-3-36-D	36V C.T. @ 0.065A	18V @ 0.13A
MPS - 4 - 36	MPS-4-36-D	36V C.T. @ 0.17A	18V @ 0.34V
MPS - 5 - 36	MPS-5-36-D	36V C.T. @ 0.35A	18V @ 0.7A
MPS - 6 - 36	MPS-6-36-D	36V C.T. @ 0.55A	18V @ 1.1A
MPS - 7 - 36	MPS-7-36-D	36V C.T. @ 1A	18V @ 2A
MPS - 2 - 48	MPS-2-48-D	48V C.T. @ 0.023A	24V @ 0.046A
MPS - 3 - 48	MPS-3-48-D	48V C.T. @ 0.05A	24V @ 0.1A
MPS - 4 - 48	MPS-4-48-D	48V C.T. @ 0.125A	24V @ 0.25A
MPS - 5 - 48	MPS-5-48-D	48V C.T. @ 0.25A	24V @ 0.5A
MPS - 6 - 48	MPS-6-48-D	48V C.T. @ 0.4A	24V @ 0.8A
MPS - 7 - 48	MPS-7-48-D	48V C.T. @ 0.75A	24V @ 1.5A
MPS - 2 - 56	MPS-2-56-D	56V C.T. @ 0.02A	28V @ 0.04A
MPS - 3 - 56	MPS-3-56-D	56V C.T. @ 0.045A	28V @ 0.09A
MPS - 4 - 56	MPS-4-56-D	56V C.T. @ 0.11A	28V @ 0.22A
MPS - 5 - 56	MPS-5-56-D	56V C.T. @ 0.22A	28V @ 0.44A
MPS - 6 - 56	MPS-6-56-D	56V C.T. @ 0.35A	28V @ 0.7A
MPS - 7 - 56	MPS-7-56-D	56V C.T. @ 0.65A	28V @ 1.3A
MPS - 2 - 120	MPS-2-120-D	120V C.T. @ 0.01A	60V @ 0.02A
MPS - 3 - 120	MPS-3-120-D	120V C.T. @ 0.02A	60V @ 0.04A
MPS - 4 - 120	MPS-4-120-D	120V C.T. @ 0.05A	60V @ 0.1A
MPS - 5 - 120	MPS-5-120-D	120V C.T. @ 0.1A	60V @ 0.2A
MPS - 6 - 120	MPS-6-120-D	120V C.T. @ 0.16A	60V @ 0.32A
MPS - 7 - 120	MPS-7-120-D	120V C.T. @ 0.3A	60V @ 0.6A



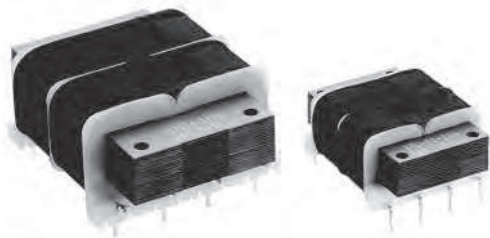
UNIT: INCHES

SIZE	VA	L ±0.04	W ±0.04	H ±0.04	ML ±0.02	A ±0.012	B ±0.012	C ±0.02	HOLE ±0.02
2	1.1	1.400	1.185	0.938	---	0.250	0.250	1.200	---
3	2.4	1.400	1.185	1.188	---	0.250	0.250	1.200	---
4	6.0	1.634	1.320	1.313	1.062	0.250	0.350	1.280	0.126
5	12	1.910	1.600	1.438	1.260	0.300	0.400	1.410	0.126
6	20	2.265	1.890	1.438	1.500	0.300	0.400	1.600	0.150
7	36	2.625	2.195	1.563	1.732	0.400	0.400	1.850	0.177



MPL SERIES

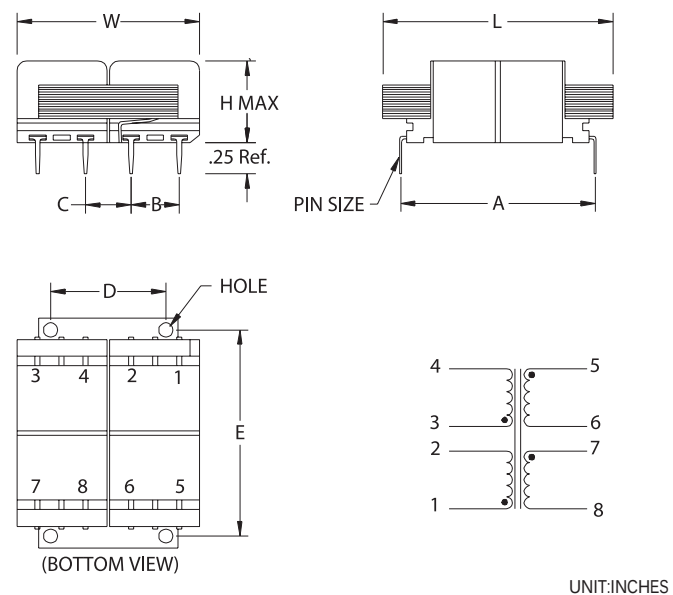
Low Profile Power Transformers



- Primary 115/230V 50/60Hz input, secondary single or Dual output DC Supplies Isolated.
- Split bobbin for low leakage application, 1500V hipot.
- Low capacity coupling minimizes line noise and false triggering

Part Number	Size (VA)	SECONDARY RATING (RMS)	
		Series	Parallel
MPL - 10 - 250	2.5	10V C.T. @ 250mA	5V @ 500mA
MPL - 10 - 600	6	10V C.T. @ 600mA	5V @ 1.2A
MPL - 10 - 1200	12	10V C.T. @ 1200mA	5V @ 2.4A
MPL - 12 - 200	2.5	12.6V C.T. @ 200mA	6.3V @ 400mA
MPL - 12 - 450	6	12.6V C.T. @ 450mA	6.3V @ 900mA
MPL - 12 - 900	12	12.6V C.T. @ 900mA	6.3V @ 1.8A
MPL - 16 - 150	2.5	16V C.T. @ 150mA	8V @ 300mA
MPL - 16 - 350	6	16V C.T. @ 350mA	8V @ 700mA
MPL - 16 - 700	12	16V C.T. @ 700mA	8V @ 1.4A
MPL - 20 - 125	2.5	20V C.T. @ 125mA	10V @ 250mA
MPL - 20 - 300	6	20V C.T. @ 300mA	10V @ 600mA
MPL - 20 - 600	12	20V C.T. @ 600mA	10V @ 1.2A
MPL - 24 - 100	2.5	24V C.T. @ 100mA	12V @ 200mA
MPL - 24 - 250	6	24V C.T. @ 250mA	12V @ 500mA
MPL - 24 - 500	12	24V C.T. @ 500mA	12V @ 1A
MPL - 30 - 85	2.5	30V C.T. @ 85mA	15V @ 170mA
MPL - 30 - 200	6	30V C.T. @ 200mA	15V @ 400mA
MPL - 30 - 400	12	30V C.T. @ 400mA	15V @ 800mA
MPL - 34 - 75	2.5	34V C.T. @ 75mA	17V @ 150mA
MPL - 34 - 170	6	34V C.T. @ 170mA	17V @ 340mA
MPL - 34 - 340	12	34V C.T. @ 340mA	17V @ 680mA
MPL - 40 - 60	2.5	40V C.T. @ 60mA	20V @ 120mA
MPL - 40 - 150	6	40V C.T. @ 150mA	20V @ 300mA
MPL - 40 - 300	12	40V C.T. @ 300mA	20V @ 600mA
MPL - 56 - 45	2.5	56V C.T. @ 45mA	28V @ 90mA
MPL - 56 - 100	6	56V C.T. @ 100mA	28V @ 200mA
MPL - 56 - 200	12	56V C.T. @ 200mA	28V @ 400mA
MPL - 88 - 28	2.5	88V C.T. @ 28mA	44V @ 56mA
MPL - 88 - 65	6	88V C.T. @ 65mA	44V @ 130mA
MPL - 88 - 130	12	88V C.T. @ 130mA	44V @ 260mA
MPL - 120 - 20	2.5	120V C.T. @ 20mA	60V @ 40mA
MPL - 120 - 50	6	120V C.T. @ 50mA	60V @ 100mA
MPL - 120 - 100	12	120V C.T. @ 100mA	60V @ 200mA
MPL - 230 - 10	2.5	230V C.T. @ 10mA	115V @ 20mA
MPL - 230 - 25	6	230V C.T. @ 25mA	115V @ 50mA
MPL - 230 - 50	12	230V C.T. @ 50mA	115V @ 100mA

Mechanical Dimensions:



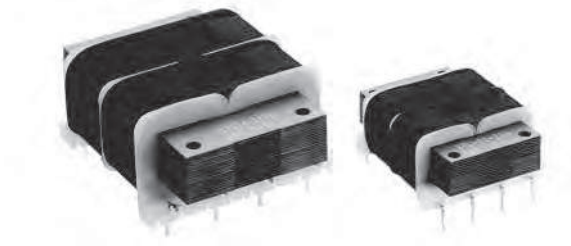
- 1.Regulation of size 2.5 and 6 is 30% , i.e., no load-secondary voltage is 30% higher than that of full load.
- 2.Regulation of size 12 is 20%.

SIZE (VA)	L ±0.04	W ±0.04	H ±0.04	A ±0.02	B ±0.012	C ±0.012	D ±0.02	E ±0.02	PIN SIZE ±0.01	HOLE ±0.02
2.5	1.875	1.562	0.650	1.600	0.375	0.375	0.874	1.624	0.040x0.0197	0.126
6	1.875	1.562	0.850	1.600	0.375	0.375	0.874	1.624	0.040x0.0197	0.126
12	2.520	2.000	1.065	2.000	0.500	0.500	0.984	2.008	0.040x0.0197	0.165

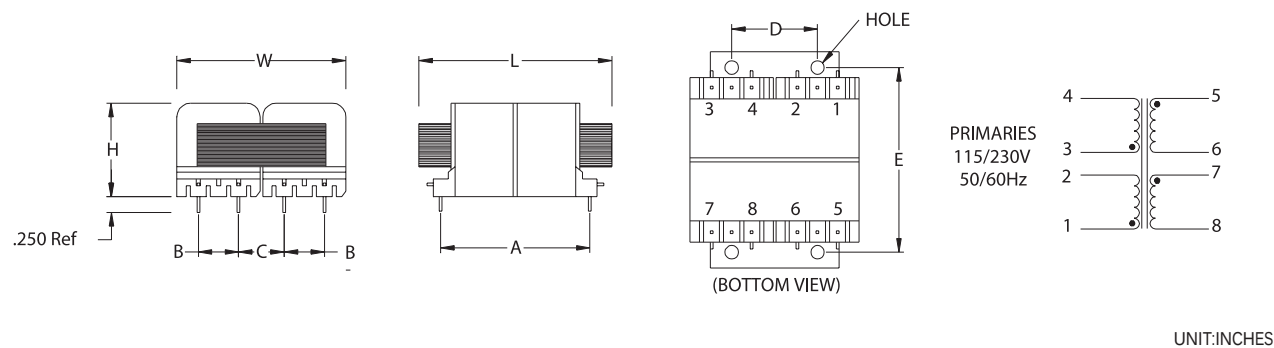
MPL SERIES

Low Profile Power Transformers

- 115/230V 50/60Hz high power usage.
- Rugged Plug-IN pin.



Mechanical Dimensions:



Part Number	Size (VA)	SECONDARY RATING (RMS)	
		Series	Parallel
MPL - 10 - 2400	24	10V C.T. @ 2.40A	5V @ 4.80A
MPL - 10 - 4800	48	10V C.T. @ 4.80A	5V @ 9.60A
MPL - 12 - 1900	24	12.6V C.T. @ 1.90A	6.3V @ 3.80A
MPL - 12 - 3800	48	12.6V C.T. @ 3.80A	6.3V @ 7.60A
MPL - 16 - 1500	24	16V C.T. @ 1.50A	8V @ 3.00A
MPL - 16 - 3000	48	16V C.T. @ 3.00A	8V @ 6.00A
MPL - 20 - 1200	24	20V C.T. @ 1.20A	10V @ 2.40A
MPL - 20 - 2400	48	20V C.T. @ 2.40A	10V @ 4.80A
MPL - 24 - 1000	24	24V C.T. @ 1.00A	12V @ 2.00A
MPL - 24 - 2000	48	24V C.T. @ 2.00A	12V @ 4.00A
MPL - 30 - 800	24	30V C.T. @ 800mA	15V @ 1.60A
MPL - 30 - 1600	48	30V C.T. @ 1.60A	15V @ 3.20A
MPL - 34 - 700	24	34V C.T. @ 700mA	17V @ 1.40A
MPL - 34 - 1400	48	34V C.T. @ 1.40A	17V @ 2.80A
MPL - 40 - 600	24	40V C.T. @ 600mA	20V @ 1.20A
MPL - 40 - 1200	48	40V C.T. @ 1.20A	20V @ 2.40A
MPL - 56 - 425	24	56V C.T. @ 425mA	28V @ 850mA
MPL - 56 - 850	48	56V C.T. @ 850mA	28V @ 1.70A

SIZE (VA)	L ±0.02	W ±0.04	H ±0.04	A ±0.02	B ±0.012	C ±0.012	D ±0.02	E ±0.02	PIN SIZE ±0.01	HOLE ±0.02
24	2.87	2.25	1.250	1.900	.600	.530	1.315	2.42	SQ 0.04	0.150
48	3.12	2.50	1.375	2.180	.600	.660	1.260	2.62	SQ 0.04	0.197



MPC SERIES

Miniature Plug in Power Transformers

MPC SERIES



STYLE B



STYLE C



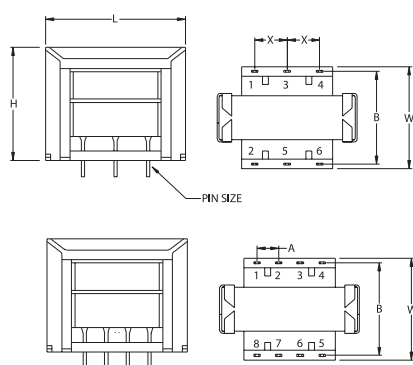
STYLE D



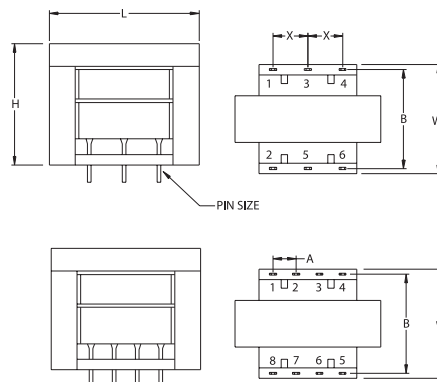
STYLE E

Mechanical Dimensions:

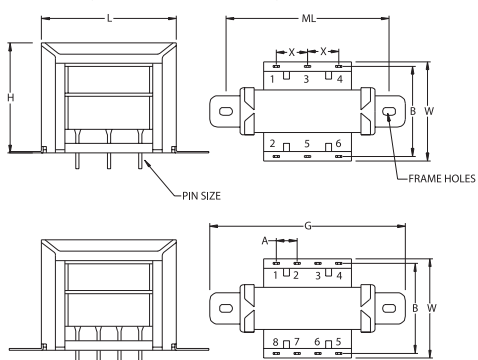
STYLE B (CHANNEL FRAME NO PCB MOUNT)



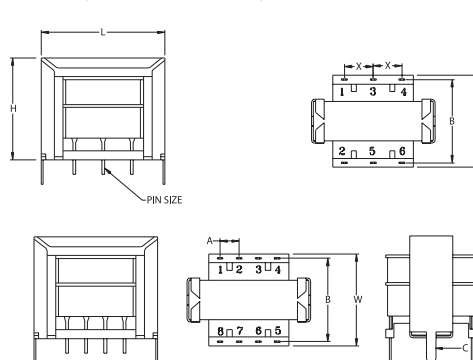
STYLE C (NO CHANNEL FRAME)



STYLE D (CHANNEL FRAME SCREW MOUNT)



STYLE E (CHANNEL FRAME PCB MOUNT)



UNIT:mm



MPC SERIES

Miniature Plug in Power Transformers

- Power transformer-concentric or split winding construction

HOW TO ORDER

MPC - 12 - 350 C D

Primary Type.

MPC 115V 60Hz 6PIN
MPCC 230V 50Hz 6PIN
MPCD 115/230V 50/60Hz 8PIN

Secondary Voltage Rating in Series

in Volts RMS

Secondary Current Rating in Series

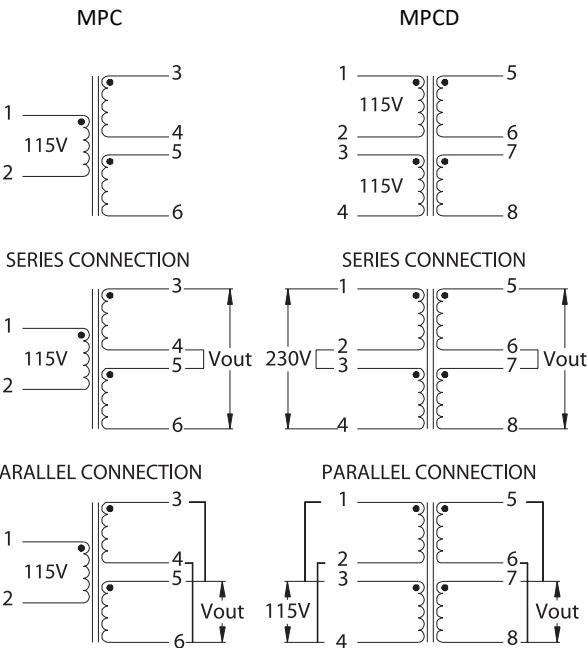
in mA RMS

Mechanical-Configuration

B = Channel Frame-No Mount
C = No Frame
D = Channel Frame-Screw Mount
E = Channel Frame-PCB Mount

Transformer Series

S --- Single Section Bobbin (Concentric winding)
D --- Double Section Bobbin (Split winding)



UNIT : INCHES

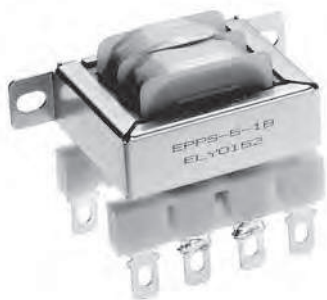
VA	STYLE B.C.D.E.				STYLE C			STYLE B.D.E			STYLE D			STYLE E
	6 pin X±0.012	8 pin A±0.012	B± 0.04	PIN SIZE ±0.008	L ±0.04	W ±0.04	H ±0.04	L ±0.04	W ±0.04	H ±0.04	G ±0.04	ML ±0.04	Frame Hole±0.02	C ±0.02
1.0	0.250	0.200	1.200	0.045x0.020	1.025	1.375	0.83	----	----	----	2.062	1.77	0.138X0.217	0.13x0.03
1.2	0.312	0.200	1.000	0.039x0.020	1.400	1.125	1.188	1.500	1.125	1.220	2.062	1.77	0.138X0.217	0.13x0.03
4.4	0.400	0.250	1.100	0.039x0.020	1.634	1.250	1.375	1.720	1.250	1.400	2.375	2.00	0.157X0.236	0.19x0.03
10	0.400	0.250	1.300	0.039x0.020	1.910	1.438	1.625	1.970	1.438	1.660	2.813	2.38	0.157X0.236	----
24	0.400	0.250	2.100	0.039x0.020	1.634	2.250	1.375	----	----	----	----	----	----	----

PRIMARY 50/60Hz		SECONDARY RATING (RMS)		Size (VA)
Single 115V (6 pin)``	Dual 115/230V (8 pin)	Series	Parallel	
MPC-10-90	MPCD-10-90	10V C.T. @ 90 mA	5V @ 180mA	1.0
MPC-10-120	MPCD-10-120	10V C.T. @ 120mA	5V @ 240mA	1.2
MPC-10-440	MPCD-10-440	10V C.T. @ 440mA	5V @ 880mA	4.4
MPC-10-1000	MPCD-10-1000	10V C.T. @ 1A	5V @ 2A	10
MPC-10-2400	MPCD-10-2400	10V C.T. @ 2.4A	5V @ 4.8A	24
MPC-12-70	MPCD-12-70	12.6V C.T. @ 70mA	6.3V @ 140mA	1.0
MPC-12-100	MPCD-12-100	12.6V C.T. @100mA	6.3V @ 200mA	1.2
MPC-12-350	MPCD-12-350	12.6V C.T. @350mA	6.3V @ 700mA	4.4
MPC-12-800	MPCD-12-800	12.6V C.T. @800mA	6.3V @ 1.6A	10
MPC-12-2000	MPCD-12-2000	12.6V C.T. @ 2A	6.3V @ 4A	24
MPC-16-55	MPCD-16-55	16V C.T. @ 55mA	8V @ 110mA	1.0
MPC-16-75	MPCD-16-75	16V C.T. @ 75mA	8V @ 150mA	1.2
MPC-16-260	MPCD-16-260	16V C.T. @ 260mA	8V @ 520mA	4.4
MPC-16-640	MPCD-16-640	16V C.T. @ 640mA	8V @ 1.28A	10
MPC-16-1500	MPCD-16-1500	16V C.T. @ 1.5A	8V @ 3A	24
MPC-20-45	MPCD-20-45	20V C.T. @ 45mA	10V @ 90mA	1.0
MPC-20-60	MPCD-20-60	20V C.T. @ 60mA	10V @ 120mA	1.2
MPC-20-220	MPCD-20-220	20V C.T. @ 220mA	10V @ 440mA	4.4
MPC-20-500	MPCD-20-500	20V C.T. @ 500mA	10V @ 1A	10
MPC-20-1200	MPCD-20-1200	20V C.T. @ 1.2A	10V @ 2.4A	24
MPC-24-35	MPCD-24-35	24V C.T. @ 35mA	12V @ 70mA	1.0
MPC-24-50	MPCD-24-50	24V C.T. @ 50mA	12V @ 100mA	1.2
MPC-24-180	MPCD-24-180	24V C.T. @ 180mA	12V @ 360mA	4.4
MPC-24-450	MPCD-24-450	24V C.T. @ 450mA	12V @ 900mA	10
MPC-24-1000	MPCD-24-1000	24V C.T. @ 1A	12V @ 2A	24
MPC-28-30	MPCD-28-30	28V C.T. @ 30mA	14V @ 60mA	1.0
MPC-28-40	MPCD-28-40	28V C.T. @ 40mA	14V @ 80mA	1.2
MPC-28-160	MPCD-28-160	28V C.T. @ 160mA	14V @ 320mA	4.4
MPC-28-360	MPCD-28-360	28V C.T. @ 360mA	14V @ 720mA	10
MPC-28-800	MPCD-28-800	28V C.T. @ 800mA	14V @ 1.6A	24
MPC-34-25	MPCD 34-25	34V C.T. @ 25mA	17V @ 50mA	1.0
MPC-34-35	MPCD-34-35	34V C.T. @ 35mA	17V @ 70mA	1.2
MPC-34-125	MPCD-34-125	34V C.T. @ 125mA	17V @ 250mA	4.4
MPC-34-300	MPCD-34-300	34V C.T. @ 300mA	17V @ 600mA	10
MPC-34-700	MPCD-34-700	34V C.T. @ 700mA	17V @ 1.4A	24
MPC-40-20	MPCD-40-20	40V C.T. @ 20mA	20V @ 40mA	1.0
MPC-40-30	MPCD-40-30	40V C.T. @ 30mA	20V @ 60mA	1.2
MPC-40-110	MPCD-40-110	40V C.T. @ 110mA	20V @ 220mA	4.4
MPC-40-250	MPCD-40-250	40V C.T. @ 250mA	20V @ 500mA	10
MPC-40-600	MPCD-40-600	40V C.T. @ 600mA	20V @ 1.2A	24
MPC-56-15	MPCD 56-15	56V C.T. @ 15mA	28V @ 30mA	1.0
MPC-56-20	MPCD-56-20	56V C.T. @ 20mA	28V @ 40mA	1.2
MPC-56-80	MPCD-56-80	56V C.T. @ 80mA	28V @ 160mA	4.4
MPC-56-180	MPCD-56-180	56V C.T. @ 180mA	28V @ 360mA	10
MPC-56-420	MPCD-56-420	56V C.T. @ 420mA	28V @ 840mA	24
MPC-120-8	MPCD-120-8	120V C.T. @ 8mA	60V @ 16mA	1.0
MPC-120-10	MPCD-120-10	120V C.T. @ 10mA	60V @ 20mA	1.2
MPC-120-35	MPCD-120-35	120V C.T. @ 35mA	60V @ 70mA	4.4
MPC-120-85	MPCD-120-85	120V C.T. @ 85mA	60V @ 170mA	10
MPC-120-200	MPCD-120-200	120V C.T. @ 200mA	60V @ 400mA	24

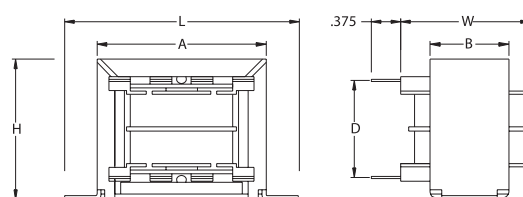
MPPS.MPPD SERIES

Side Termination Power Transformers

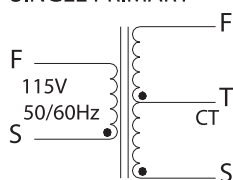
- Pcb screw mounting
- Side termination for input / output connection



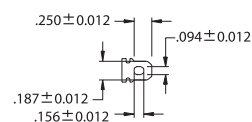
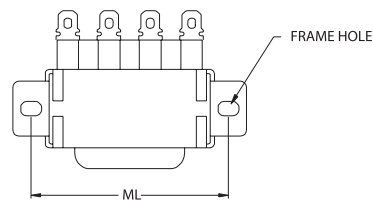
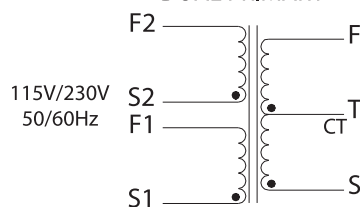
Mechanical Dimensions:



SINGLE PRIMARY



DUAL PRIMARY



UNIT: INCHES

Part Number		secondary
Single 115V	Dual 115/230V	Rating (RMS)
MPPS-3-10	Not Available	10V C.T. @ 0.25A
MPPS-4-10	MPPD-4-10	10V C.T. @ 0.60A
MPPS-5-10	MPPD-5-10	10V C.T. @ 1.2 A
MPPS-6-10	MPPD-6-10	10V C.T. @ 3.0 A
MPPS-7-10	MPPD-7-10	10V C.T. @ 5.0 A
MPPS-8-10	MPPD-8-10	10V C.T. @ 10 A
MPPS-3-12	Not Available	12.6V C.T. @ 0.20A
MPPS-4-12	MPPD-4-12	12.6V C.T. @ 0.50A
MPPS-5-12	MPPD-5-12	12.6V C.T. @ 1.0A
MPPS-6-12	MPPD-6-12	12.6V C.T. @ 2.5 A
MPPS-7-12	MPPD-7-12	12.6V C.T. @ 4.0 A
MPPS-8-12	MPPD-8-12	12.6V C.T. @ 8.0 A
MPPS-3-16	Not Available	16V C.T. @ 0.15A
MPPS-4-16	MPPD-4-16	16V C.T. @ 0.40A
MPPS-5-16	MPPD-5-16	16V C.T. @ 0.80A
MPPS-6-16	MPPD-6-16	16V C.T. @ 2.0 A
MPPS-7-16	MPPD-7-16	16V C.T. @ 3.5 A
MPPS-8-16	MPPD-8-16	16V C.T. @ 6.25A
MPPS-3-20	Not Available	20V C.T. @ 0.12 A
MPPS-4-20	MPPD-4-20	20V C.T. @ 0.30 A
MPPS-5-20	MPPD-5-20	20V C.T. @ 0.60 A
MPPS-6-20	MPPD-6-20	20V C.T. @ 1.5 A
MPPS-7-20	MPPD-7-20	20V C.T. @ 2.8 A
MPPS-8-20	MPPD-8-20	20V C.T. @ 5.0 A
MPPS-3-24	Not Available	24V C.T. @ 0.10 A
MPPS-4-24	MPPD-4-24	24V C.T. @ 0.25 A
MPPS-5-24	MPPD-5-24	24V C.T. @ 0.50 A
MPPS-6-24	MPPD-6-24	24V C.T. @ 1.25 A
MPPS-7-24	MPPD-7-24	24V C.T. @ 2.4 A
MPPS-8-24	MPPD-8-24	24V C.T. @ 4.0 A

Part Number		Secondary
Single 115V	Dual 115/230V	Rating (RMS)
MPPS-3-28	Not Available	28V C.T. @ 0.085A
MPPS-4-28	MPPD-4-28	28V C.T. @ 0.20 A
MPPS-5-28	MPPD-5-28	28V C.T. @ 0.42 A
MPPS-6-28	MPPD-6-28	28V C.T. @ 1.1 A
MPPS-7-28	MPPD-7-28	28V C.T. @ 2.0 A
MPPS-8-28	MPPD-8-28	28V C.T. @ 3.6 A
MPPS-3-36	Not Available	36V.C.T. @ 0.065A
MPPS-4-36	MPPD-4-36	36V C.T. @ 0.17 A
MPPS-5-36	MPPD-5-36	36V C.T. @ 0.35 A
MPPS-6-36	MPPD-6-36	36V C.T. @ 0.85 A
MPPS-7-36	MPPD-7-36	36V C.T. @ 1.5 A
MPPS-8-36	MPPD-8-36	36V C.T. @ 2.8 A
MPPS-3-48	Not Available	48V C.T. @ 0.05 A
MPPS-4-48	MPPD-4-48	48V C.T. @ 0.125A
MPPS-5-48	MPPD-5-48	48V C.T. @ 0.25 A
MPPS-6-48	MPPD-6-48	48V C.T. @ 0.63 A
MPPS-7-48	MPPD-7-48	48V C.T. @ 1.2 A
MPPS-8-48	MPPD-8-48	48V C.T. @ 2.0 A
MPPS-3-56	Not Available	56V C.T. @ 0.045A
MPPS-4-56	MPPD-4-56	56V C.T. @ 0.11 A
MPPS-5-56	MPPD-5-56	56V C.T. @ 0.22 A
MPPS-6-56	MPPD-6-56	56V C.T. @ 0.54 A
MPPS-7-56	MPPD-7-56	56V C.T. @ 1.00 A
MPPS-8-56	MPPD-8-56	56V C.T. @ 1.8 A
MPPS-3-120	Not Available	120V C.T. @ 0.02 A
MPPS-4-120	MPPD-4-120	120V C.T. @ 0.05 A
MPPS-5-120	MPPD-5-120	120V C.T. @ 0.10 A
MPPS-6-120	MPPD-6-120	120V C.T. @ 0.25 A
MPPS-7-120	MPPD-7-120	120V C.T. @ 0.50 A
MPPS-8-120	MPPD-8-120	120V C.T. @ 0.85 A

DIMENSIONS (in inches)

SIZE	VA	L ±0.04	W ±0.04
3	2.4	2.062	1.062
4	6	2.375	1.250
5	12	2.813	1.375
6	30	3.250	1.688
7	56	3.688	1.812
8	100	4.031	2.250

DIMENSIONS (in inches)

SIZE	H ±0.04	A ±0.04	B ±0.04
3	1.187	1.625	0.563
4	1.375	1.688	0.688
5	1.625	1.938	0.802
6	1.930	2.312	1.063
7	2.250	2.688	1.063
8	2.563	3.063	1.313

DIMENSIONS (in inches)

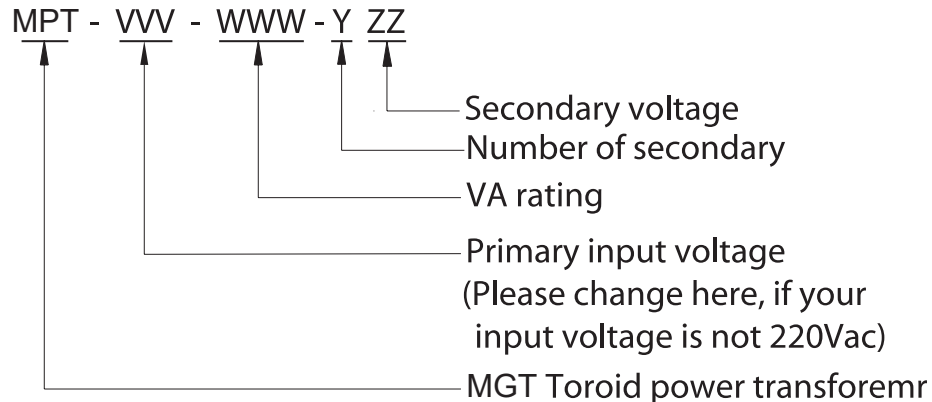
SIZE	D ±0.02	ML ±0.04	FRAME HOLE ±0.02
3	0.945	1.750	0.138x0.197
4	1.043	2.000	0.157x0.236
5	1.122	2.375	0.157x0.236
6	1.300	2.813	0.177x0.275
7	1.438	3.125	0.157x0.275
8	1.662	3.563	0.177x0.216

MPT SERIES

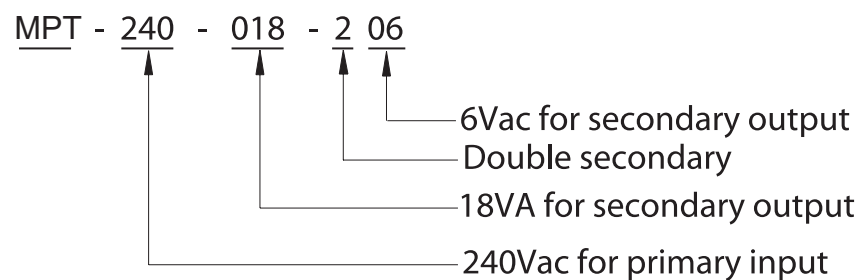
Toroidal Power Transformers

- Low magnetic noise.
- High efficiency.
- Excellent load regulation.
- Easy assembly.
- Very low no-load losses and magnetizing current.
- Half the size and weight.
- Various input options: 100V /110V /117V /120V /220V /230V /240V. 50/60Hz.
- Dielectric strength greater than 3KV, 1 minute between primary and secondary.
- Electric parameters tested 100% of production.
- Application power range 10VA to 750VA available according to customer's requirement.
- Class B insulation system (optional).
- Single primary winding standard, dual primaries optional.

Description of our standard part number



For example:



MPT SERIES

Toroidal Power Transformers

Standard parts

The following part numbers are our standard parts for input voltage 220 VAC series. If you require different input voltage, please change part number from 220 to your requirement (see part number description).

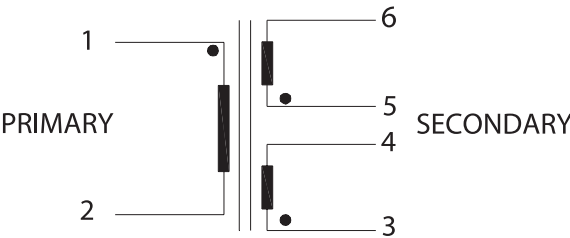
Part Number	Power (VA)	AC Output		Dimension (inches)		Weight (lbs)	Screw
		Series	Parallel	OD	H		
MPT-220-018-206	18	12V@1.5A	6V@3.0A	2.5	1.3	0.7	M4
MPT-220-018-209		18V@1.0A	9V@2.0A				
MPT-220-018-212		24V@0.8A	12V@1.6A				
MPT-220-018-215		30V@0.6A	15V@1.2A				
MPT-220-018-218		36V@0.5A	18V@1.0A				
MPT-220-018-222		44V@0.4A	22V@0.8A				
MPT-220-036-206	36	12V@2.9A	6V@5.8A	2.9	1.6	1.1	M4
MPT-220-036-209		18V@1.9A	9V@3.8A				
MPT-220-036-212		24V@1.5A	12V@3.0A				
MPT-220-036-215		30V@1.2A	15V@2.4A				
MPT-220-036-218		36V@1.0A	18V@2.0A				
MPT-220-036-222		44V@0.8A	22V@1.6A				
MPT-220-060-206	60	12V@5.0A	6V@10A	3.3	1.7	1.5	M6
MPT-220-060-209		18V@3.3A	9V@6.6A				
MPT-220-060-212		24V@2.5A	12V@5.0A				
MPT-220-060-215		30V@2.0A	15V@4.0A				
MPT-220-060-218		36V@1.7A	18V@3.4A				
MPT-220-060-222		44V@1.4A	22V@2.8A				
MPT-220-060-224		48V@1.3A	24V@2.6A				
MPT-220-100-209	100	18V@5.6A	9V@11.2A	3.9	1.9	2.8	M6
MPT-220-100-212		24V@4.2A	12V@8.4A				
MPT-220-100-215		30V@3.3A	15V@6.6A				
MPT-220-100-218		36V@2.8A	18V@5.6A				
MPT-220-100-222		44V@2.3A	22V@4.6A				
MPT-220-100-224		48V@2.1A	24V@4.2A				
MPT-220-100-228		56V@1.8A	28V@3.6A				
MPT-220-100-230		60V@1.7A	30V@3.4A				
MPT-220-155-212	155	24V@6.5A	12V@13.0A	4.4	2.1	3.7	M6
MPT-220-155-215		30V@5.2A	15V@10.4A				
MPT-220-155-218		36V@4.3A	18V@8.6A				
MPT-220-155-222		44V@3.5A	22V@7.0A				
MPT-220-155-224		48V@3.2A	24V@6.4A				
MPT-220-155-228		56V@2.8A	28V@5.6A				
MPT-220-155-230		60V@2.6A	30V@5.2A				
MPT-220-200-212	200	24V@8.3A	12V@16.6A	4.5	2.4	4.2	M6
MPT-220-200-215		30V@6.7A	15V@13.4A				
MPT-220-200-218		36V@5.5A	18V@11.0A				
MPT-220-200-222		44V@4.5A	22V@9.0A				
MPT-220-200-224		48V@4.2A	24V@8.4A				
MPT-220-200-228		56V@3.6A	28V@7.2A				
MPT-220-200-230		60V@3.3A	30V@6.6A				
MPT-220-325-212	325	24V@13.5A	12V@27.0A	4.7	3.3	6.2	M8
MPT-220-325-215		30V@10.8A	15V@21.6A				
MPT-220-325-218		36V@9.0A	18V@18.0A				
MPT-220-325-224		48V@6.8A	24V@13.6A				
MPT-220-325-230		60V@5.4A	30V@10.8A				
MPT-220-325-238		76V@4.3A	38V@8.6A				

MPT SERIES

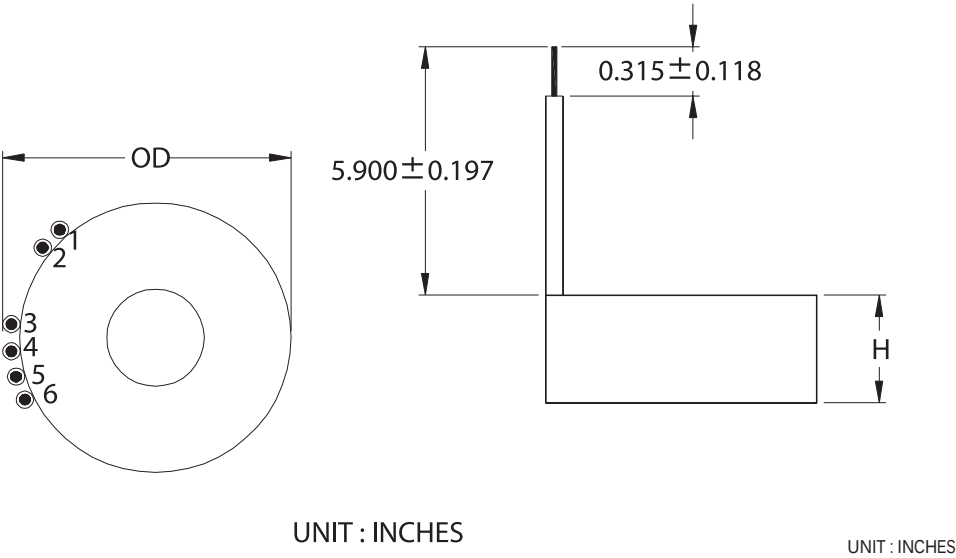
Toroidal Power Transformers

Part Number	Power (VA)	AC Output		Dimension (inches)		Weight (lbs)	Screw
		Series	Parallel	OD	H		
MPT-220-440-218	440	36V@12.2A	18V@24.4A	5.6	2.5	7.5	M8
MPT-220-440-224		48V@9.2A	24V@18.4A				
MPT-220-440-230		60V@7.3A	30V@14.6A				
MPT-220-440-238		76V@5.8A	38V@11.6A				
MPT-220-585-224	585	48V@12.2A	24V@24.4A	5.6	2.9	9.0	M8
MPT-220-585-230		60V@9.7A	30V@19.4A				
MPT-220-585-238		76V@7.7A	38V@15.4A				
MPT-220-690-224	690	48V@14.4A	24V@28.8A	5.7	3.5	10.3	M8
MPT-220-690-230		60V@11.5A	30V@23.0A				
MPT-220-690-233		66V@10.5A	33V@21.0A				
MPT-220-690-238		76V@9.1A	38V@18.2A				
MPT-220-750-224	750	48V@15.6A	24V@31.2A	5.9	3.5	12.8	M8
MPT-220-750-230		60V@12.5A	30V@25.0A				
MPT-220-750-240		80V@9.37A	40V@18.8A				

Schematic of our standard parts



Dimensions:



MPT SERIES

Toroidal Power Transformers

Customer specification sheet for toroidal power transformer

(Please copy the form and fill with data of your transformer)

Date: _____

Company : _____

Contact person: _____

Address : _____

Telephone: _____

Fax : _____

MPT SERIES

INPUT			OUTPUT			
Frequency : _____ Hz	Lead Color	Wire Length	Voltage	Amp	Lead Color	Wire Length
TYPE I	_____	_____	115V	_____	_____	_____
	_____	_____	0	_____	_____	_____
	_____	_____	115V	_____	_____	_____
OR	_____	_____	0	_____	_____	_____
	_____	_____	120V	_____	_____	_____
	_____	_____	100V	_____	_____	_____
TYPE II	_____	_____	0	_____	_____	_____
	_____	_____	120V	_____	_____	_____
	_____	_____	100V	_____	_____	_____
TYPE III	_____	_____	0	_____	_____	_____
	_____	_____	Various input options	_____	_____	_____
	_____	_____	_____	_____	_____	_____

Max dimensions : O.D. : _____ mm

Height : _____ mm

Lead wire safty requirement : _____
(example UL1007)

Transformer safty requirement : _____
(example UL1950)

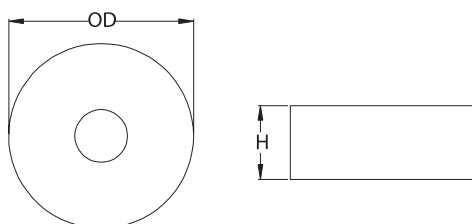
Insulation class : _____

Temperature rise : _____ MAX

Assembly method :

☐ Metal washer.

☐ Potted center.



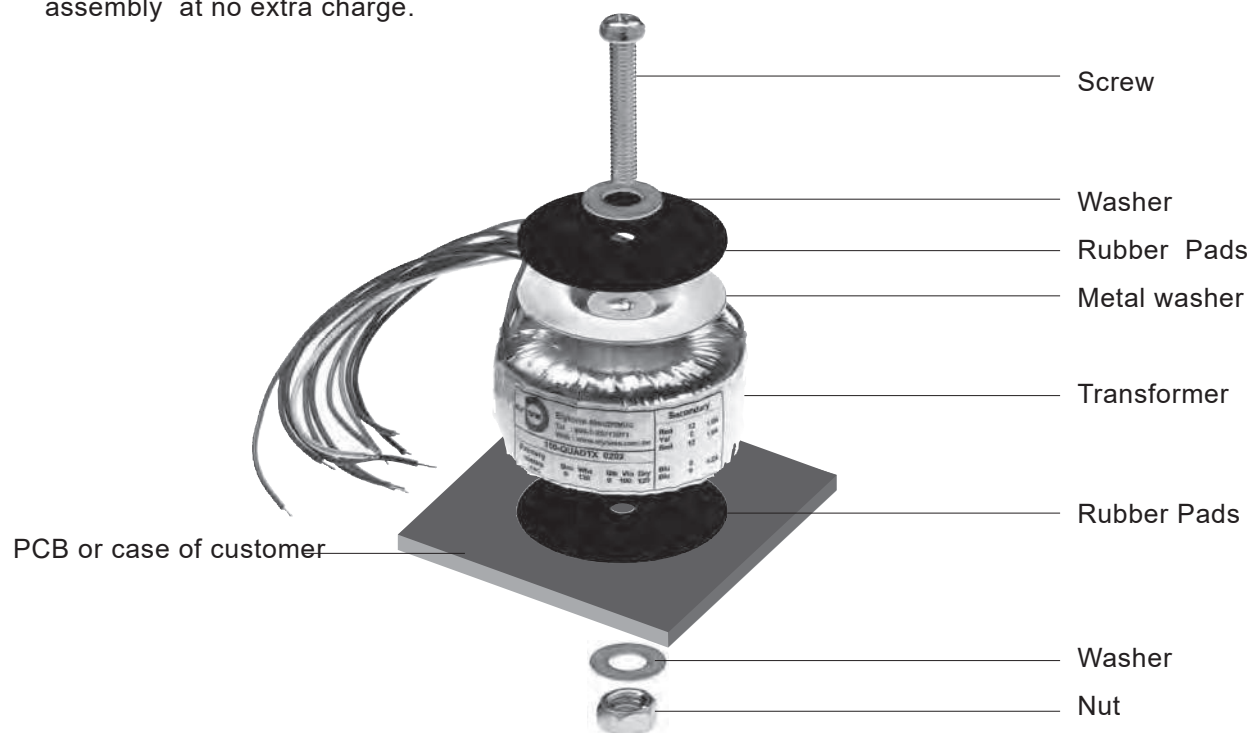
MPT SERIES

Toroidal Power Transformers

Assembly method

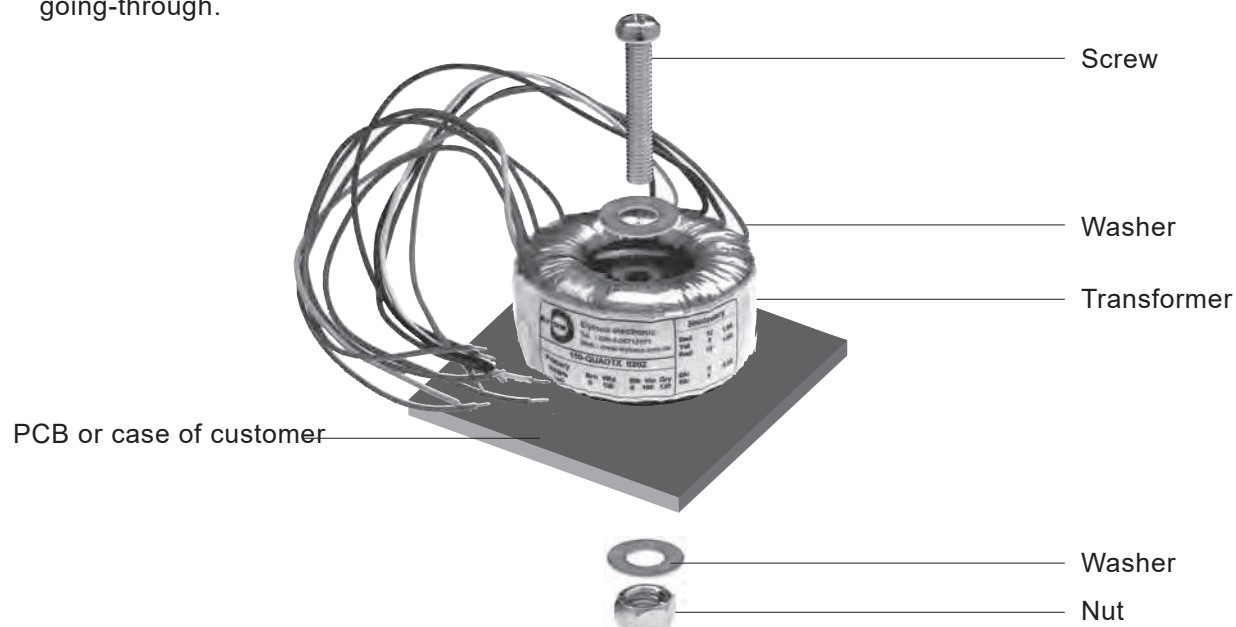
* Type 1: Mounting washer and rubber pads

All of our standard parts are supplied with metal washers, rubber pads, screw, and nut for assembly at no extra charge.



* Type 2: Potted center(optional)

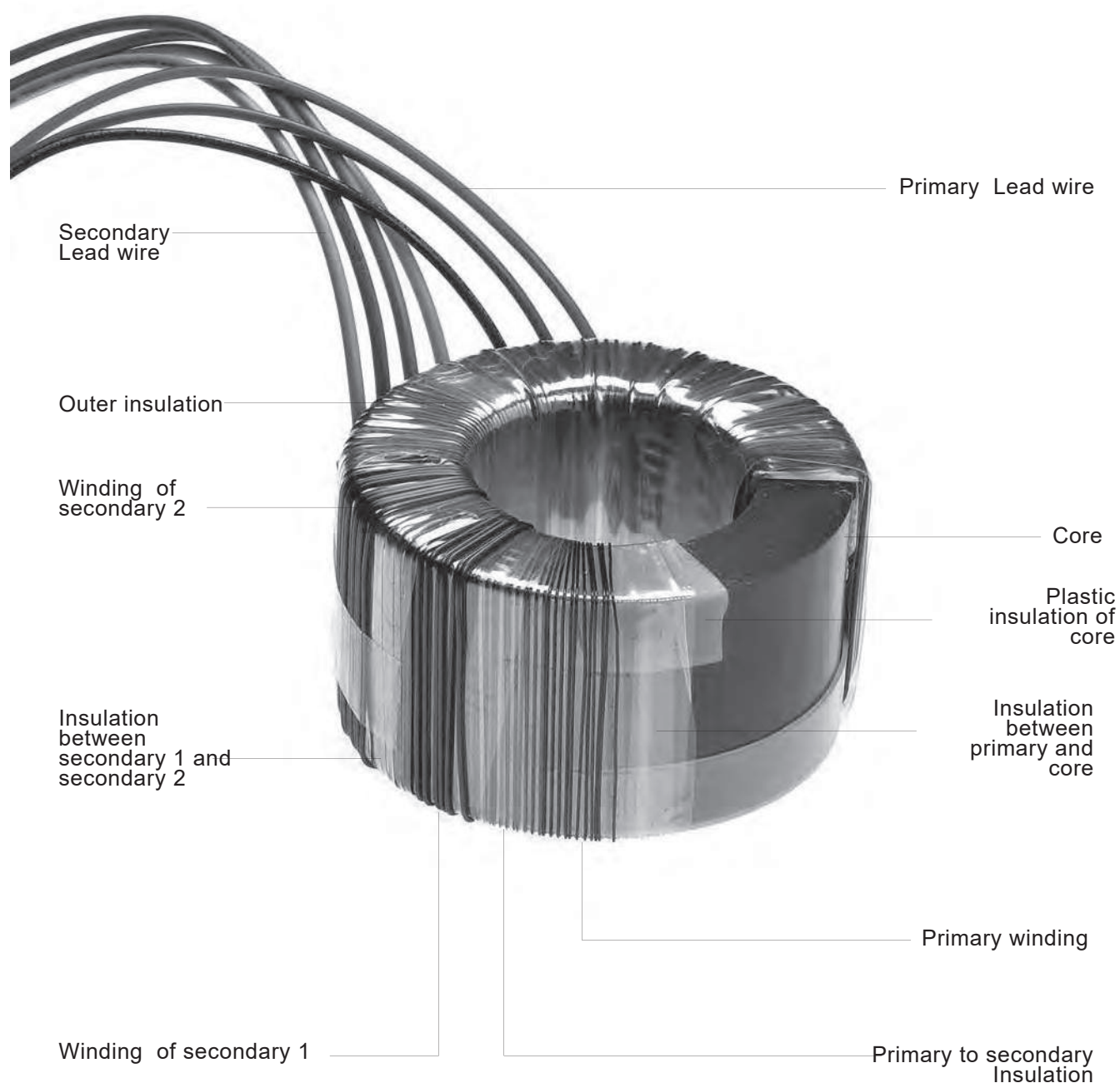
Center of transformer filled with epoxy resin, then a central hole drilled for mounting screw going-through.



MPT SERIES

Toroidal Power Transformers

Construction



Line Matching Audio Transformers

- Couple 4 or 8 ohms speakers to 25 or 70.7 or 100 voltage line outputs of amplifiers.
- Up to 5 power tap levels available (except 100 Voltage which has 4).
- Primary taps marked in watts (no calculation necessary), to match speaker power.
- Frequency response reference @ 1K Hz. At full rated power.
- Insertion loss reference @ 1K Hz. At full rated power.
- Distortion reference @ 100 Hz. At full rated power.
- Efficiency reference @ 1K Hz. At full rated power each tap across 4 or 8 ohms resistive load.
- Maximum Ambient Temperature : 50 deg C.
- Connections : 150 ± 10 m/m multi stranded PVC wire. Stripped and Tinned.
- Horizontal, channel bracket, 2-hole mounting (except 100 Voltage 50 W which has 4-hole).
- Total power requirements of speakers should not exceed the rated power of each transformer or rated power of the amplifier.

• 25 Voltage Line Matching Audio Transformer

Part No.	Power Rating Watts	Impedance		Insertion Loss maximum	Frequency Response	Distortion maximum	Efficiency minimum	Dimensions - inches			
		Primary	Secondary					Case			Mounting
		ohms						L	W	H	MN
MLM-0250021	2 / 1 / 0.5 / 0.25 / 0.125	312.5/625/1.25K/2.5K/5K	4 / 8	1.5 dB	50Hz ~ 15KHz ± 2.0 dB	1.5 %	75 %	1.45	1.15	1.25	1.80
MLM-0250041	4 / 2 / 1 / 0.5 / 0.25	156/312.5/625/1.25K/2.5K	4 / 8	1.5 dB	50Hz ~ 15KHz ± 1.5 dB	1.25 %	75 %	1.70	1.40	1.45	2.10
MLM-0250081	8 / 4 / 2 / 1 / 0.5	78/156/312.5/625/1.25K	4 / 8	1.25 dB	50Hz ~ 15KHz ± 1.5 dB	1.25 %	75 %	2.00	1.50	1.70	2.40
MLM-0250161	16 / 8 / 4 / 2 / 1	39/78/156/312.5/625	4 / 8	1.25 dB	50Hz ~ 12KHz ± 2.0 dB	1.25 %	78 %	2.35	1.55	2.00	2.80
MLM-0250321	32 / 16 / 8 / 4 / 2	19.5/39/78/156/312.5	4 / 8	1.0 dB	45Hz ~ 12KHz ± 3.0 dB	1.0 %	80 %	2.70	1.95	2.30	3.20

• 70.7 Voltage Line Matching Audio Transformer

Part No.	Power Rating Watts	Impedance		Insertion Loss maximum	Frequency Response	Distortion maximum	Efficiency minimum	Dimensions - inches			
		Primary	Secondary					Case			Mounting
		ohms						L	W	H	MN
MLM-0700021	2 / 1 / 0.5 / 0.25 / 0.125	2.5K/5K/10K/20K/40K	4 / 8	1.5 dB	50Hz ~ 15KHz ± 1.0 dB	1.5 %	70 %	1.45	1.15	1.25	1.80
MLM-0700041	4 / 2 / 1 / 0.5 / 0.25	1.25K/2.5K/5K/10K/20K	4 / 8	1.5 dB	50Hz ~ 15KHz ± 1.0 dB	1.25 %	72.5 %	1.70	1.40	1.45	2.10
MLM-0700081	8 / 4 / 2 / 1 / 0.5	625/1.25K/2.5K/5K/10K	4 / 8	1.25 dB	50Hz ~ 15KHz ± 1.0 dB	1.25 %	80 %	2.00	1.50	1.70	2.40
MLM-0700161	16 / 8 / 4 / 2 / 1	312.5/625/1.25K/2.5K/5K	4 / 8	1.25 dB	50Hz ~ 15KHz ± 1.0 dB	1.25 %	78 %	2.35	1.55	2.00	2.80
MLM-0700321	32 / 16 / 8 / 4 / 2	156/312.5/625/1.25K/2.5K	4 / 8	1.0 dB	45Hz ~ 15KHz ± 1.5 dB	0.8 %	80 %	2.70	1.95	2.30	3.20
MLM-0700641	64 / 32 / 16 / 8 / 4	78/156/312.5/625/1.25K	4 / 8	1.0 dB	40Hz ~ 15KHz ± 3.0 dB	0.6 %	80 %	3.10	2.50	2.65	3.55

Line Matching Audio Transformers

• 100 Voltage Line Matching Audio Transformer

Part No.	Power Rating Watts	Impedance		Insertion Loss maximum	Frequency Response	Distortion maximum	Efficiency minimum	Dimensions - inches			
		Primary	Secondary					Case			Mounting
		ohms						L	W	H	MN
MLM-1000021	2/1/0.5/0.25	5K/10K/20K/40K	4 / 8	1.0 dB	50Hz ~ 15KHz ± 2.0 dB	2.5 %	80 %	1.70	1.40	1.45	2.10
MLM-1000051	5/2/1/0.5	2K/5K/10K/20K	4 / 8	0.8 dB	50Hz ~ 15KHz ± 1.5 dB	1.5 %	80 %	2.00	1.50	1.70	2.40
MLM-1000101	10/7.5/5/2.5	1K/1.33K/2K/4K	4 / 8	0.6 dB	50Hz ~ 15KHz ± 1.0 dB	1.25 %	85 %	2.35	1.55	2.00	2.80
MLM-1000161	16/8/4/2	625/1.25K/2.5K/5K	8	1.0 dB	50Hz ~ 15KHz ± 3.0 dB	7 %	75 %	1.70	1.45	2.05	2.05
MLM-1000201	20/15/10/5	500/666/1K/2K	4 / 8	0.5 dB	45Hz ~ 15KHz ± 1.0 dB	1.25 %	90 %	2.70	1.95	2.30	3.20
MLM-1000301	30/20/15/10	333/500/666/1K	4 / 8	0.5 dB	40Hz ~ 15KHz ± 1.0 dB	1.0 %	90 %	3.10	2.50	2.65	3.55
MLM-1000501	50/40/30/20	200/250/333/500	4 / 8	0.5 dB	40Hz ~ 15KHz ± 1.0 dB	1.25 %	90 %	3.55	3.20	3.05	4.10

• 25/70.7 Voltage Line Matching Audio Transformer

Part No.	Power Rating Watts	Impedance		Insertion Loss maximum	Frequency Response	Distortion maximum	Efficiency minimum	Dimensions - inches			
		Primary	Secondary					Case			Mounting
		ohms						L	W	H	MN
MLM-0257001	2/1/0.5/0.25	312.5/625/1.25K2.5K/ 5K/10K/20K	8	0.95 dB	50Hz ~ 15KHz ± 4.0 dB	11 %	81 %	1.15	1.05	1.10	


Go Top

Major Product Categories



Common Mode Chokes



Current Sense Transformers



Flat Helix Winding Coils



Line Matching Audio Transformers



Line Power Transformers



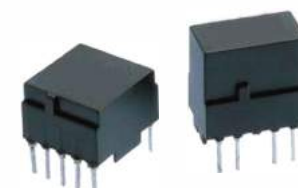
Planar Transformers



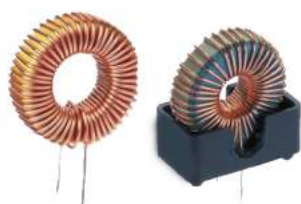
Power Transformers



SMD Power Inductors



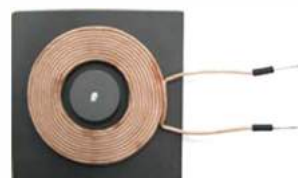
Telecommunication Transformers



Toroidal Inductors



Toroidal Line Power Transformers



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