

Stock code:002902

mentech



# Automotive Magnetics Catalog

TO DO THE UTMOST FOR CUSTOMERS

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Index -----	02
cross-check-----	03
BMS Transformer-----	07
Lan Transformer-----	27
CHIP COMMON MODE CHOKE-----	44
Power Transformer-----	46
COMMON MODE CHOKE-----	51

# BMS Transformer

NO.	Mentech	Pulse	Bourns	Packaging	Topology	Channels	Pin No.	PIN pitch	Array pitch
1	TD1011G	HM2100NL		14. 7*11. 65*3. 45	TR+CMC	2	10P	2. 54mm	14. 93
2	TB1015G	HM2101NL		7. 6*6. 75*5. 25mm	TR+CMC	1	6	2. 54mm	9. 45mm
3	TE1011G	HM2102NL/HMU2102NL	SM91501AL/SM91501ALo	14. 8*11. 7*4. 85mm	TR+CMC	2	12P	2. 0mm	14. 7mm
4	TB1013G	HM2103NL/HMU2103NL	/	7. 6*6. 75*5. 25mm	TR+CMC	1	6P	2. 54mm	9. 45mm
5	TB1121G	HM2106NL	/	8. 50*13. 31*5. 75mm	TR	1	6P	2. 54mm	16. 85mm
6	TB1016G	HM2108NL	/	8. 50*13. 31*5. 75mm	TR	1	6P	2. 54mm	16. 85mm
7	TE1012G	HM2112ZNL	/	14. 8*12. 15*3. 45	TR+CMC	2	12P	2. 0mm	15. 45
8	TB101FG	HM2113ZNL	/	9. 0*12. 15*3. 45	TR+CMC	1	6P	2. 54	15. 45
9	TB1023G	HM1236NL	/	8. 38*7. 69*4. 25mm	CMC+TR	1	6P	2. 54&3. 81mm	10. 5mm
10	TB1022G	HM1238NL	/	8. 38*7. 69*4. 25mm	CMC+TR	1	6P	2. 54&3. 81mm	10. 5mm
11	TB101CG	/	SM91502AL/SM91502ALA	7. 6*6. 75*5. 25mm	TR+CMC	1	6P	2. 54mm	9. 45mm
12	TB1024G	/	SM91508AL	8. 38*7. 69*4. 25mm	CMC+TR	1	6P	2. 54&3. 81mm	10. 5mm
13	TE1091G	/	SM91509AL	14. 8*11. 7*4. 85mm	CMC+TR+CMC	2	12P	2. 0mm	14. 7mm
14	TB2013G	/	SM91514AL/SM91514ALN	7. 6*6. 75*5. 25mm	TR+CMC	1	6P	2. 54mm	9. 45mm
15	TB1012G	/	/	12. 8*14. 3*9. 0mm	TR+CMC	1	6P	2. 54mm	18mm
16	TB101EG	/	/	7. 6*6. 75*4. 5mm	TR+CMC	1	6P	2. 54mm	9. 45mm
17	TA1121G	/	/	7. 25*9. 55*3. 5mm	TR	1	4P	5. 08mm	12. 80mm
18	TB101DG	/	/	7. 3*8*4. 05mm	TR+CMC	1	6P	2. 54mm	10. 0mm
19	TB101GG	HX1335HL	/	24. 32*12. 0*6. 0mm	TR+CMC	1	6P	2. 54mm	27. 85mm
20	TB1017G	/	/	7. 6*6. 75*5. 25mm	TR+CMC	1	6P	2. 54mm	9. 45mm

## LAN Transformer

No.	Mentech	Pulse	Bourns	Sumida	Packaging	Topology	Transfer Speed	Port	Pin No.	PIN pitch	Array pitch
1	GJ1011G	HM5004NLT	/	/	17.5*12.2*6.2mm	TR+CMC	1G	1	24P	1.27mm	16.0mm
2	GJ1021G	HM5149NLT	/	/	17.78*9.91*3.2mm	CMC+TR	1G	1	24P	1.27mm	10.41mm
3	HB1013G	HMU1228NL	/	/	8.89*10.0*6.85mm	TR	100M	1	6P	2.54mm	12.7mm
4	HE1011G	HM0068ANL	/	/	12.7*8.81*2.1mm	TR+CMC	100M	1	12P	1.27mm	9.45mm
5	HF1011G	HM1188NL	SM91071AL	CLP0612	12.7*7.10*6.40mm	TR+CMC	100M	1	16P	1.27mm	9.45mm
6	HF1014G	HM1190NL/HM1193NL	/	/	12.7*7.10*6.40mm	TR+CMC	100M	1	16P	1.27mm	9.45mm
7	HF1015G	HM1225NL	/	/	12.7*7.10*6.40mm	TR+CMC	100M	1	16P	1.27mm	9.45mm
8	HN1011G	HM1234NL	/	/	28.1*12.0*6.4mm	TR+CMC	100M	4	40P	1.27mm	16.0mm
9	HH1011G	HM1331NL	/	/	15.24*12.7*7.62mm	TR+CMC	100M	1	20P	1.27mm	15.24mm
10	HF1021G	/	PT61018AAPEL	/	12.8*6.9*5.65mm	CMC+TR	100M	1	16P	1.27mm	9.45mm
11	HF1022G	/	SM91072AL/SM91073AL	/	12.7*7.10*6.40mm	CMC+TR	100M	1	16P	1.27mm	9.45mm
13	HE1012G	HM2104ZNL	/	/	14.81*11.7*4.88mm	TR+CMC	100M	1	12P	2.0mm	14.7mm
15	HB1012G	/	/	/	7.6*6.75*5.25mm	TR+CMC	100M	1	6P	2.54mm	9.45mm
16	HF1013G	/	/	/	12.7*7.10*5.25mm	TR+CMC	100M	1	16P	1.27mm	9.45mm
17	H1601CA	/	/	/	12.7*7.10*6.40mm	TR+CMC	100M	1	16P	1.27mm	9.45mm
18	HF1016G	HM1237NL	/	/	12.7*7.10*6.40mm	TR+CMC	100M	1	16P	1.27mm	9.45mm
19	HF1017G	SM91074AL	/	/	12.7*7.10*6.40mm	TR+CMC	100M	1	16P	1.27mm	9.45mm

## CM4532 SERIES

NO.	Mentech	TDK	COMMON MODE Impedance ( $\Omega @10M \pm 25\%$ )	COMMON MODE Inductance ( $\mu H +50\% /30\%$ )	DCR ( $\Omega$ max)	Rated Current (mA max)	Rated Volt (Vdc max)	IR ( $\Omega$ min)
1	CM4532-110-A	ACT45B-110-2P-TL-000	700	11	0.6	250	50	10M
2	CM4532-220-A	ACT45B-220-2P-TL-000	1000	22	1.0	200	50	10M
3	CM4532-510-A	ACT45B-510-2P-TL-000	2000	51	1.2	200	50	10M
4	CM4532-101-A	ACT45B-101-2P-TL-000	5000	100	3.2	150	50	10M
5	CM4532-201-A	ACT45B-201-2P-TL-000	15000	200	4.5	100	50	10M

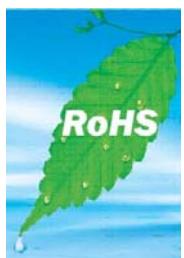
## POWER TRANSFORMER

NO.	Mentech	Packaging	OCL (uH)	Pin No.	PIN pitch	Array pitch
1	TTAERO9-2079SG	10*10.8*5.5mm	230 Min	7P	2.0mm	9.5mm
2	TTAERO9-2114SG	10*10.8*5.5mm	230 Min	7P	2.0mm	9.5mm
3	TTAERO9-2368SG	10*10.8*5.5mm	230 Min	7P	2.0mm	9.5mm
4	TTAERO9-2369SG	10*10.8*5.5mm	230 Min	7P	2.0mm	9.5mm
5	TTER09-1142SG	10*12.07*6.0mm	45.6 min	8P	2.0mm	10.1mm
6	TTAEFD14-1857SG	13.5*18.8*6.6mm	150Min	8P	2.0mm	16.8mm
7	TTAEPC13-2085SG	13.5*18.8*6.6mm	150Min	8P	2.0mm	16.8mm
8	TTAEPC13-2136SG	13.5*18.8*6.6mm	100Min	8P	2.0mm	16.8mm
9	TTAEPC13-2058SG	13.5*18.8*6.6mm	100Min	8P	2.0mm	16.8mm
10	TTAEPC13-2074SG	13.5*18.8*6.6mm	150Min	8P	2.0mm	16.8mm
11	TTAEPC13-2074SG	13.5*18.8*6.6mm	100Min	8P	2.0mm	16.8mm
12	TTAEFD14-1411SG	14.5*17.5*8.5mm	300 Min	9P	2.8mm	14.47mm
13	TTAEFD14-1673SG	14.5*17.5*8.5mm	13±12.5%	9P	2.8mm	14.47mm
14	TTAEFD14-1779SG	14.5*17.5*8.5mm	15±10%	9P	2.8mm	14.47mm
15	TTAEFD14-1780SG	14.5*17.5*8.5mm	10±12.5%	9P	2.8mm	14.47mm
16	TTAEFD14-2128SG	14.5*17.5*8.5mm	7±12.5%	9P	2.8mm	14.47mm
17	TTAEFD14-2213SG	14.5*17.5*8.5mm	7±12.5%	9P	2.8mm	14.47mm

## COMMON MODE CHOKE

NO.	Mentech	OLC	Rated Current	Packaging(mm)	Pin No.	PIN pitch(mm)	项目状态
1	CMA0402SG131U	125 $\mu$ H MIN		9. 14*5. 2*3. 5	4P	0. 50	进行中
2	CMA0603-561U	3. 05 $\mu$ H MIN		8. 0*8. 0*7. 8	4P	0. 45	进行中
3	CMA0903SG112N	1. 17mH±35%	1. 22A MAX	12. 7*12. 7*5. 46	4P	1. 6*0. 6	进行中
4	CMA1807DG102M	800 $\mu$ H MIN	15A MAX	32*25*15	4P	1. 20	进行中
5	CMA953SG801N	800±35%		13*13*8. 6	4P	0. 60	进行中
6	CMBA1407SG300U	30 $\mu$ H MIN		30. 8*27. 12*25. 05	4P	0. 80	进行中
7	CMBA1409DG400N	39. 7 $\mu$ H+50%/-30%		24*20*2	4P	2. 10	进行中
8	CMBA1608DG102U	20mH+50%/-30%		22. 5*20*19. 5	4P	1. 20	进行中
9	CMBA1712DG102U	1mH MIN (1. 5mH±30%)	16A MAX	23. 5*18. 5*28	4P	1. 50	进行中
10	CMBA1810DG281N	280 $\mu$ H+30%/-20%		19*18*30. 8	4P	1. 40	进行中
11	CMBA1811DG551V	550 $\mu$ H±25%		23*20*32. 2	4P	1. 60	进行中
12	CMBA1817DG851V	850 $\mu$ H±25%		26. 5*23*32. 2	4P	1. 60	进行中
13	CMBA2110DG202N	2. 0mH±30%		29. 5*20*32	4P	1. 5*3. 0	进行中
14	CMBA2110DG242UB	2. 4mH MIN (10KHz) 1. 7mH-35%/+45% (100KHz)		33. 6*31. 3*52. 8	4P	1. 40	进行中
15	CMBA2208DG501N	379uH -35+50%	16A	29*31*16	4P	1. 50	进行中
16	CMBA2208DG581N	583. 2 $\mu$ H+50%/-35%		34. 5*30*16. 5	4P	1. 50	进行中
17	CMBA2208DG701U			27*13*28. 8	4P	1. 50	进行中
18	CMBA2210DG761N	0. 76mH±35%		30. 5*29. 5*17	4P	1. 70	进行中
19	CMBA2510DG102U	1. 0mH MIN		26. 5*30*20	4P	1. 40	进行中
20	CMBA2510DG201N	200 $\mu$ H±30 %		36*28*34	4P	1. 80	进行中
21	CMBA2510DG221U	220 $\mu$ H MIN		32*26. 5*21	4P	2. 00	进行中
22	CMBA2510DG281U	280 $\mu$ H MIN		31. 5*26. 5*21	4P	1. 80	进行中
23	CMBA2513DG331UA	330 $\mu$ H MIN		34. 6*34. 6*56. 3	4P	1. 80	进行中
24	CMBA2513DG601U	600 $\mu$ H MIN		36. 6*33*23	4P	1. 60	进行中
25	CMBA2521DG121U	122 $\mu$ H MIN		25. 5*27. 5*21. 5	4P	2. 00	进行中
26	CMBA2521DG221U	220 $\mu$ H MIN		28*26*16	4P	1. 40	进行中
27	CMBA2610DG302N	3. 0mH+50%/-30%	20A MAX	36. 6*36. 5*21. 8	4P	1. 60	进行中
28	CMBA2610DG302NA	3. 0mH+50%/-30%	20A MAX	37. 1*36. 5*21. 8	4P	1. 60	进行中
29	CMBA2610DG401U	400 (589. 6typ)		35. 5*31. 5*24	4P	3. 60	进行中
30	CMBA2610DG802U	8. 0mH MIN		36. 5*21. 8*36. 6	4P	1. 60	进行中
31	CMBA2610DG802UA	8. 0mH MIN 13mH±35%	20A MAX	36*36*27	4P	1. 60	进行中
32	CMBA2813DG172U	1. 7mH MIN		32. 5*33. 5*52. 5	4P	1. 10	进行中
33	CMBA2813DG231N	232 $\mu$ H±35%		37. 5*37. 5*25. 5	4P	2. 1*4. 0	进行中
34	CMBA2911DG202U	2. 0mH MIN		36*36*21	4P	2. 00	进行中
35	CMBA3010DG102U	1. 0mH MIN (10KHz) 0. 7mH MIN (100KHz)		39. 5*42. 75*43. 79	4P	2. 00	进行中
36	CMBA3010DG481U	480 $\mu$ H MIN		40*25*42. 5	4P	6. 5*3. 2	进行中
37	CMBA3010DG522N	5. 2mH TYP (10KHz) 1. 5mH TYP (100KHz)		41*41*25	4P	2. 00	进行中
38	CMBA3010DG751U	750 $\mu$ H MIN		22*41*38. 8	4P	1. 6*3. 2	进行中
39	CMBA3012DG751U-8TS	750 $\mu$ H MIN		22*41*38. 8	4P	1. 6*3. 2	进行中
40	CMBA3015DG343N	33. 85mH±30%		38. 5*38. 5*48	4P	1. 65	进行中
41	CMBA3015DG652N	6. 5mH±30%		36. 5*38*23. 5	4P	2. 00	进行中
42	CMBA3015DG652NA	6. 5mH±30%		38*32*29	4P	2. 00	进行中
43	CMBA3208DG122UA	3. 5mH-35%/+45% (10KHz) 1. 2mH MIN (100KHz)		42. 6*45. 6*48. 8	4P	1. 70	进行中
44	CMBA3310DG701U	700 $\mu$ H MIN		43. 5*23*46. 3	4P	2. 2/3. 0	进行中
45	CMBA3312DG143N	14mH±30%		48*28*45	4P	2. 00	进行中
46	CMBA3312DG802U	8mH MIN (11mH±25%)	35A MAX	42*25*45. 3	4P	1. 6*3. 2	进行中
47	CMBA4015DG122U	1. 2mH MIN		49*29. 5*51. 3	8P	1. 5/2. 0	进行中
48	CMBA4015DG212U	2. 1mH MIN		48. 5*29. 5*51. 3	8P	1. 3/1. 8/2. 5	进行中
49	CMBA4015DG272U	2. 7mH MIN		48. 5*29. 5*51. 3	8P	1. 3/1. 8	进行中
50	CMBA4015DG901N	900+50%/-30%		53*52*37	4P	8*2	进行中
51	CMBA422SG102U	700 $\mu$ H MIN		5. 35*8. 8*5. 9	4P	0. 60	进行中
52	CMBA4715DG112N	1. 16mH±30%		60*60*30. 5	4P	1. 7*3. 4	进行中
53	CMBA4715DG162NA	1. 67mH±30%		60*60*30. 5	8P	1. 2/2. 0	进行中
54	CMBA5015DG502U	5. 0mH MIN		70. 5*70. 5*36. 5	8P	2. 7/2. 1	进行中
55	CMBA5519DG452U	4500 $\mu$ H MIN		60*60*30	4P	1. 7*3. 4	进行中
56	CMBASQ15DG203U	20mH MIN		22. 5*12. 5*21	4P	0. 70	进行中
57	CMEE11DG153U	15. 6mH MIN		15. 75*8. 71*16. 3	4P	0. 50	进行中
58	MGHA-0020G	3. 7mH MIN		37*52	8P	1. 70	进行中
59	MGHA-0021G	8. 0mH±30%		56	8P	2. 00	进行中
60	MGHA-0022G	8. 0mH±30%带磁片		56	8P	2. 00	进行中
61	MGHA-0108G	5. 5mH±30%		84. 85*41. 6*56. 5	8P	2. 00	进行中

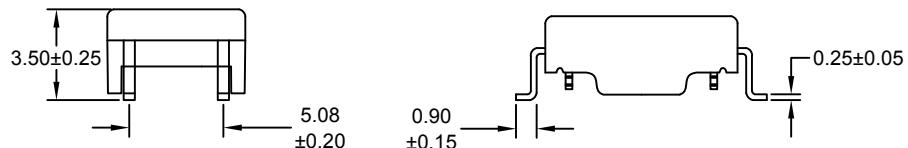
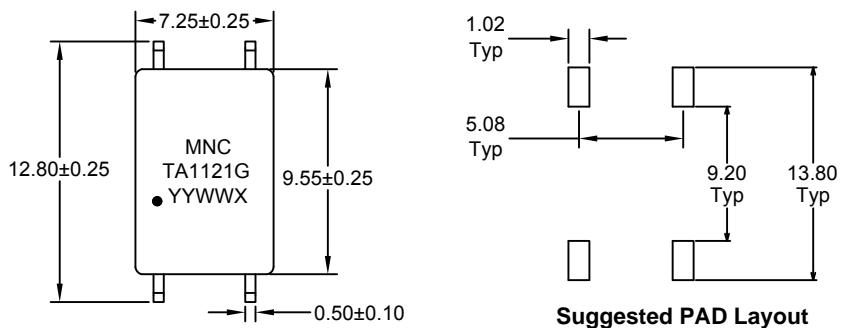
- SMT Package contains transmit transformers.
- RoHS Compliance.
- Storage Temperature Range: -40°C TO 125°C.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.



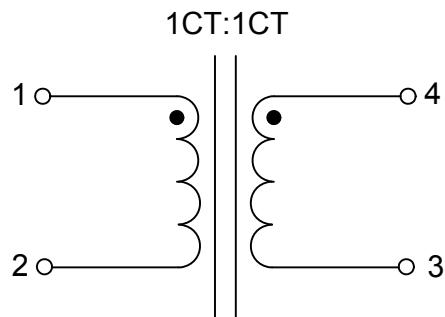
#### Electrical Specifications @ 25°C

Part Number	Turns Ratio (±5%)	OCL(uH Min) 100KHz,0.1V	LK(uH Max) 100KHz, 0.1V	DCR (mΩ Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	HI-POT
	1-2:3-4	1-2	1-2short3-4	1-2=3-4	4MHz	4MHz	1mA 2S
TA1121G	1:1	350	0.5	800	-0.5	-20	3500VAC

## MECHANICAL



## SCHEMATICS



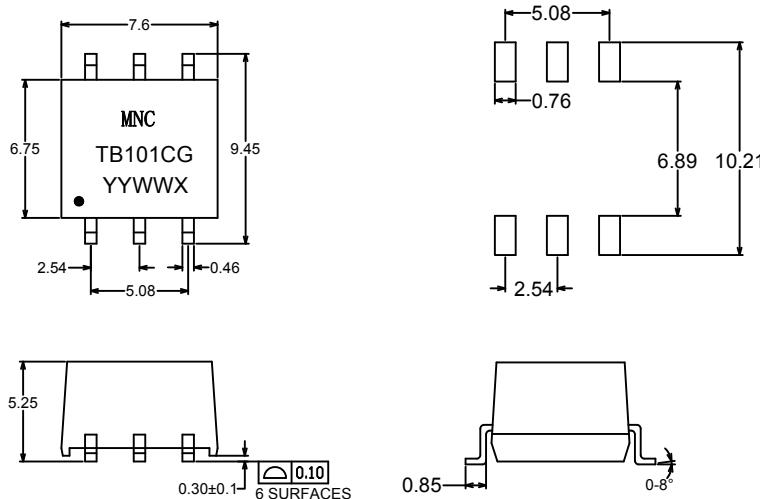
- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHS Compliant.
- Operating Temperature Range: -40°C To 125°C.
- AEC-Q200 Qualified.
- Moisture Sensitivity Level: 1.
- Functional Insulation.
- 1000V For 15 Years Operation.



#### Electrical Specifications @ 25°C

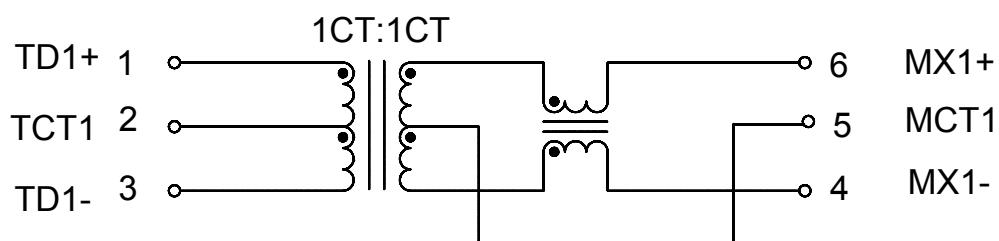
Part Number	Turns Ratio (±2%)	OCL(uH Min/Max)	LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	DCR Ω max		C <sub>ww</sub> pF max	CMRR (dB Min)		HI-POT
	(1-3):(6-4)	100KHz, 0.1V	100KHz, 0.1V	4MHz	4MHz	1-3	6-4	100KHz, 0.1V	1-100MHz	100-200MHz	1mA 60S
TB101CG	1 : 1	150/450	0.5	-0.25	-22	0.45	0.85	50	-35	-28	4300VDC

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

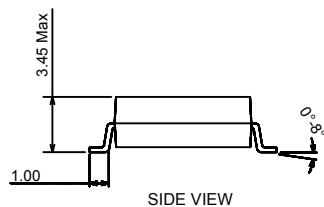
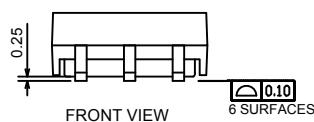
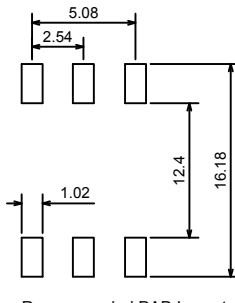
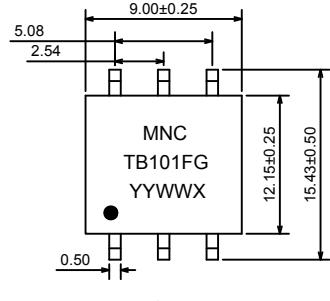


- RoHs Compliance.
- Creepage distance > 10mm.
- Storage temperature range: -50°C to +125°C.
- Operating temperature range: -40°C to +125°C.
- AEC-Q200 Qualified.



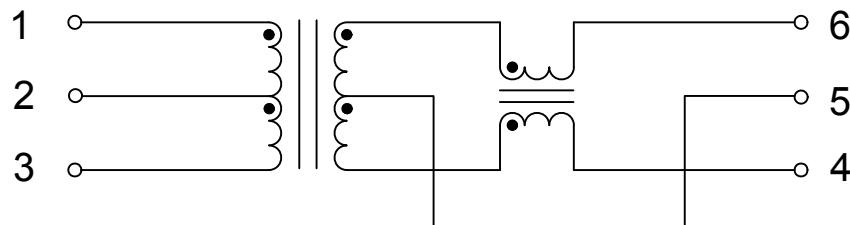
Electrical Specifications @ 25°C										
Part Number	Turns Ratio (±2%)	OCL(uH) @100KHz, 0.1V	LK(uH Max) @100KHz, 0.1V	DCR (Ω Max)		Insertion Loss (dB Max)	Return Loss (dB Min)	CMRR (dB Min)	HI-POT	
		-40°C~125°C	1-3	6-4	4MHz	4MHz	1-10MHz	10-1000MHz	1mA,60s	
TB101FG	1:1	150 Min,450 Max	0.50	0.45	0.85	-0.25	-20	-35	-20	4300VDC

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



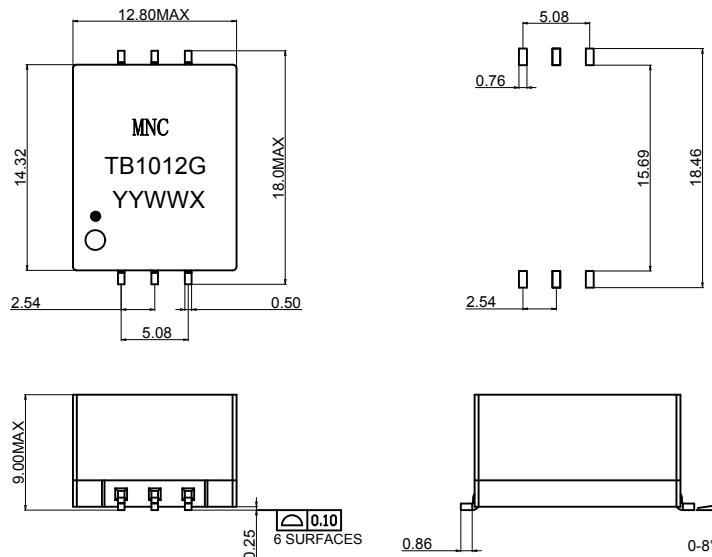
- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHs Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- Creepage Distance >10mm.



### Electrical Specifications @ 25°C

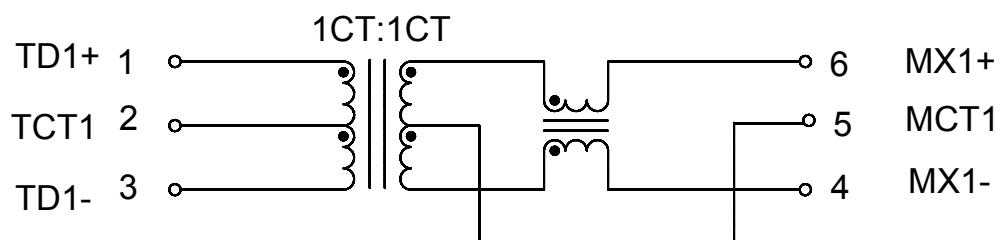
Part Number	Turns Ratio (±2%)	OCL(uH Min) @100KHz,0.1V	LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	DCR Ω max		CMRR (dB Min)			HI-POT
	(1-3):(6-4)	With 8mA DC Bias	100KHz, 0.1V	4MHz	4MHz	1-3	6-4	1-10MHz	10-200MHz	200-1000MHz	1mA 60S
TB1012G	1 : 1	150	0.6	-0.25	-20	0.5	0.9	-35	-20	-10	3000VAC

### MECHANICAL

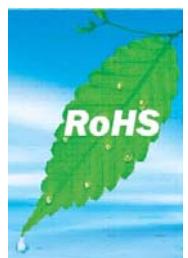


Unless otherwise specified all tolerances are:±0.25 in mm

### SCHEMATICS



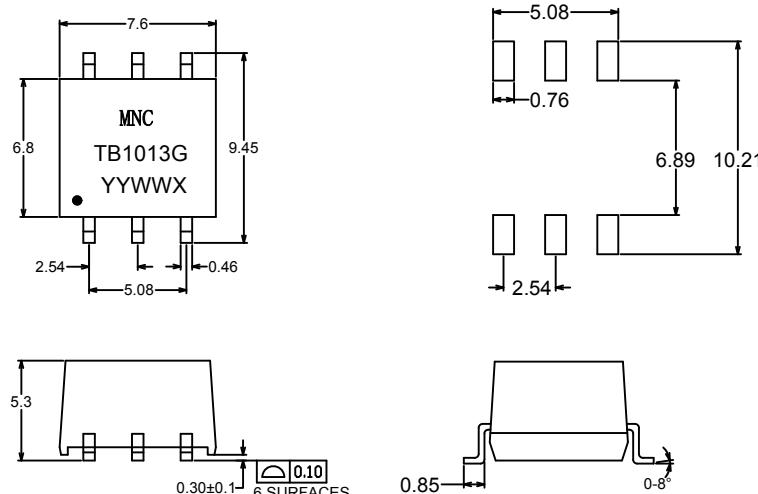
- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHs Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- Creepage Distance >5mm.



### Electrical Specifications @ 25°C

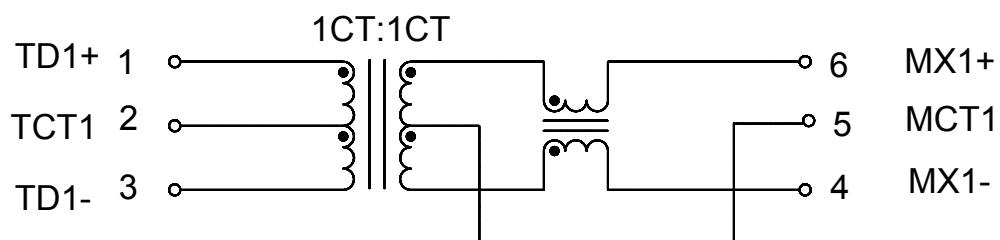
Part Number	Turns Ratio (±2%)	OCL(uH) @100KHz,0.1V		LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	DCR Ω max		CMRR (dB Min)		HI-POT
	(1-3):(6-4)	150 min	370 max	100KHz, 0.1V	4MHz	4MHz	1-3	6-4	1-10MHz	10-1000MHz	1mA 60S
TB1013G	1 : 1			0.5	-0.3	-20	0.35	0.8	-35	-20	4300VDC

## MECHANICAL

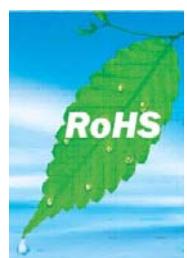


Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



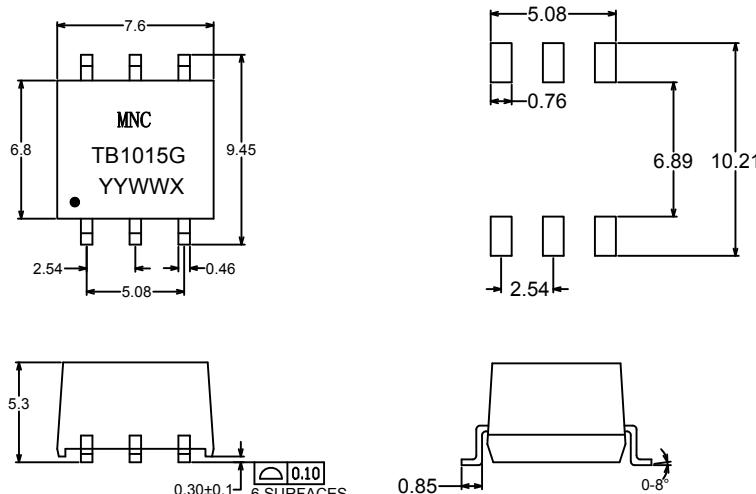
- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHS Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- Creepage Distance >5mm.



### Electrical Specifications @ 25°C

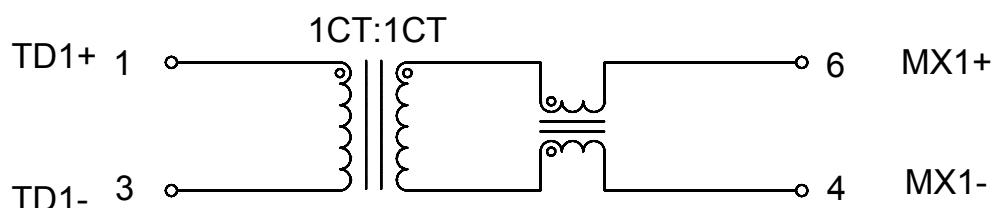
Part Number	Turns Ratio (±2%)	OCL(uH) @100KHz,0.1V		LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	DCR Ω max		CMRR (dB Min)		HI-POT
	(1-3):(6-4)	150 min	450 max	100KHz, 0.1V	4MHz	4MHz	1-3	6-4	1-10MHz	10-1000MHz	1mA 60S
TB1015G	1 : 1			0.5	-0.25	-20	0.45	0.85	-35	-20	4300VDC

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

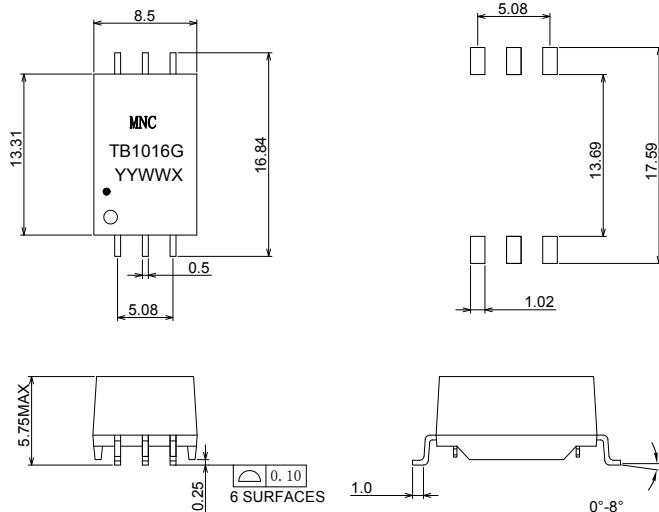


- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHs Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- Creepage Distance >11mm.
- Functional Insulation
- Working Voltage: 1000V For 15 Years
- Insulation Resistance:400 MΩ MIN
- Passed EMC Measurement



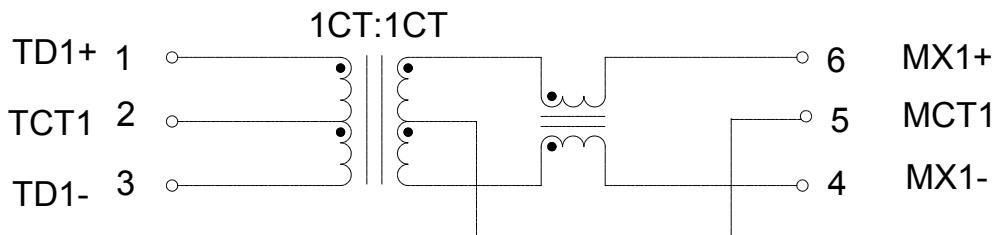
Electrical Specifications @ 25°C										
Part Number	Turns Ratio (±2%)	OCL(uH Min/Max) @100KHz,0.1V	LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	CMRR (dB Min)	DCR (Ω max)@25°C		HI-POT	
	(1-3):(6-4)	-40°C ≤ T ≤ -30°C   -30°C ≤ T ≤ 125°C	100KHz, 0.1V	4MHz	4MHz	1-10MHz	10-1KMHz	1-3	4-6	1mA 60S
TB1016G	1 : 1	135/370	150/370	0.5	-0.35	-20	-35	0.45	0.45	0.45
										4300VDC

## MECHANICAL

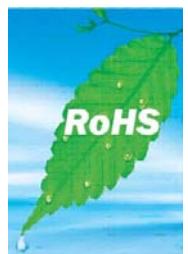


Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

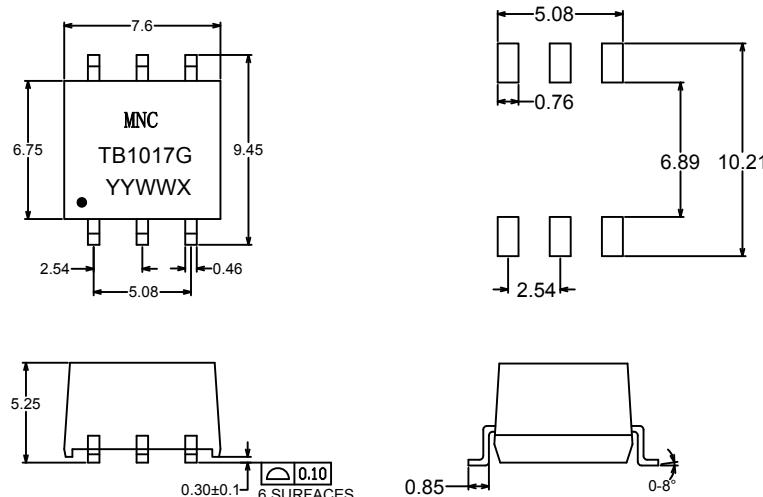


- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHS Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- Creepage Distance >5mm.
- Functional Insulation.
- 1000V For 10 Years Operation.



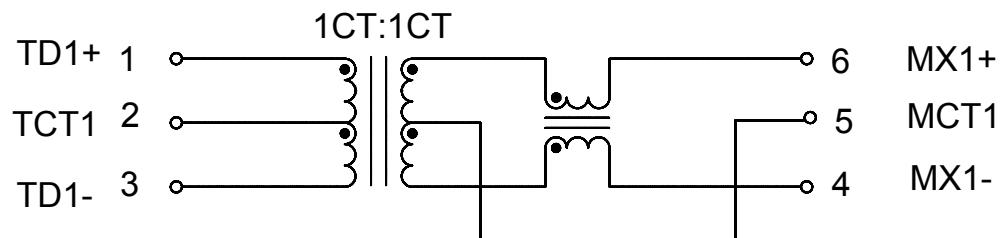
Electrical Specifications @ 25°C										
Part Number	Turns Ratio (±2%)	OCL(uH Min)	LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	DCR Ω max		CMRR (dB Min)		
	(1-3):(6-4)	100KHz, 0.1V	100KHz, 0.1V	4MHz	4MHz	1-3	6-4	1-10MHz	10-200MHz	200-1000MHz
TB1017G	1 : 1	150	0.5	-0.25	-20	0.5	0.9	-35	-20	-6
										1000VDC

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



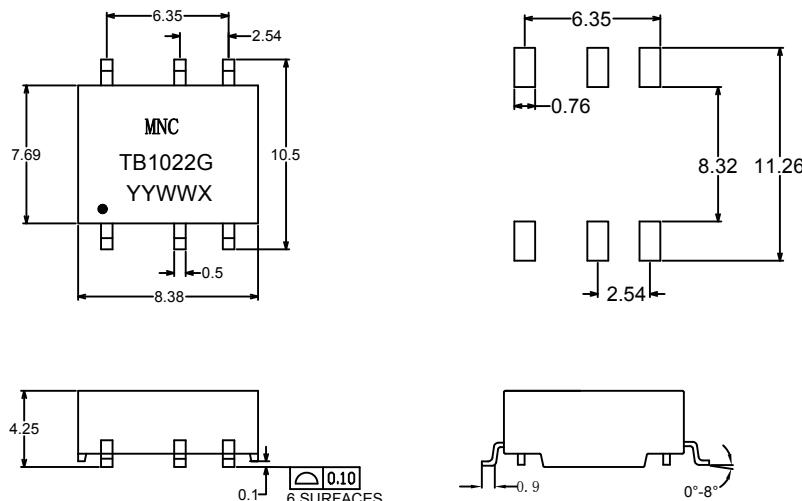
- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHs Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- 1000V For 10 Years Operation.



### Electrical Specifications @ 25°C

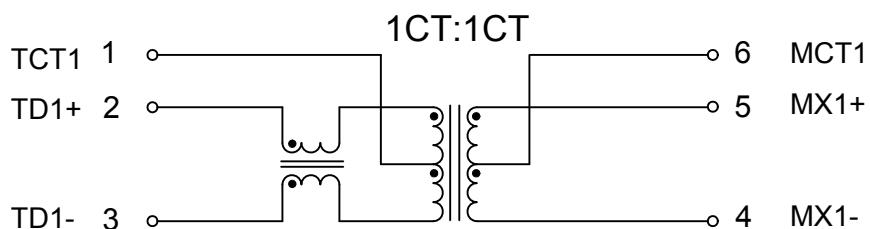
Part Number	Turns Ratio ( $\pm 2\%$ )	OCL (uH min)	DCR ( $\Omega$ Max)	LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	HI-POT (Vrms)	
		100KHz, 0.1V	(1-3) =(1-2) (4-6)=(5-6)	100KHz, 0.1V,(SHORT 6-4-5)	4MHz	4MHz	1mA 60S	
TB1022G	1:1	300	0.5	0.4	0.5	-0.25	-20	4300V DC

### MECHANICAL



Unless otherwise specified all tolerances are:  $\pm 0.25$  in mm

### SCHEMATICS



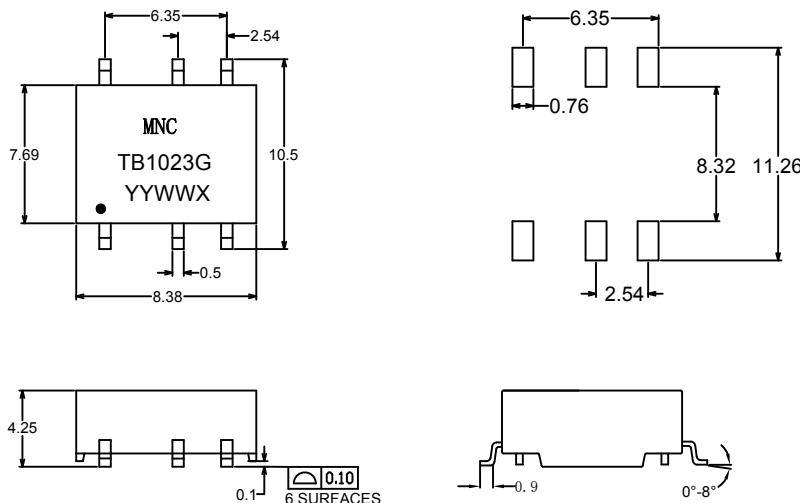
- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHs Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- 1000V For 10 Years Operation.



### Electrical Specifications @ 25°C

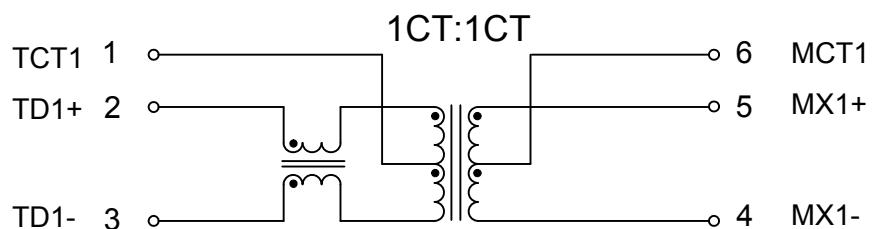
Part Number	Turns Ratio ( $\pm 2\%$ )	OCL (uH min)	DCR ( $\Omega$ Max)		LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	HI-POT (Vrms)
TB1023G	1:1	500	100KHz, 0.1V	(1-3)=(1-2) (4-6)=(5-6)	100KHz, 0.1V,(SHORT 6-4-5)	4MHz	4MHz	1mA 60S 3200V DC

### MECHANICAL



Unless otherwise specified all tolerances are:  $\pm 0.25$  in mm

### SCHEMATICS

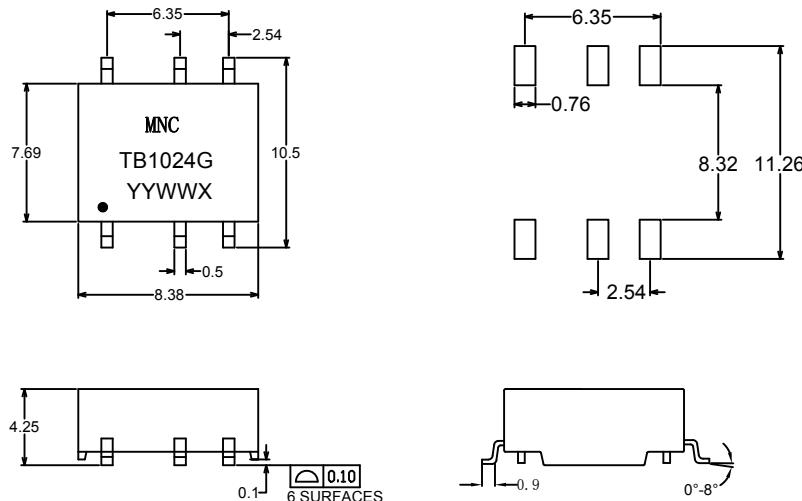


- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHS Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- 1000V For 10 Years Operation.



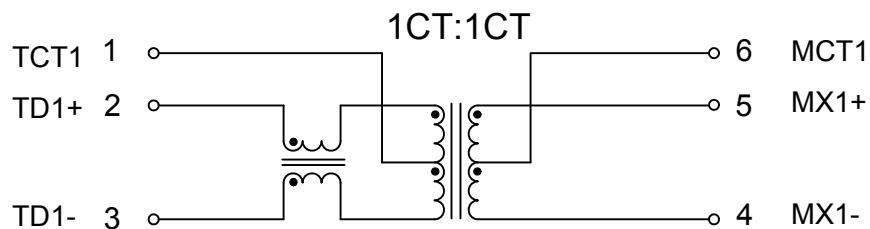
Electrical Specifications @ 25°C											
Part Number	Turns Ratio (±2%)	OCL(uH Min) @100KHz,0.1V	LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)			DCR (Ω max)@25°C		HI-POT	
	(2-3):(5-4)	(-40~150°C)	100KHz, 0.1V	1-80MHz	125MHz	1-30MHz	30-60MHz	60-80MHz	5-4	2-3	
TB1024G	1 : 1	300	0.5	-1.0	-3.0	-0.16	-12	-10	0.8	1.0	4300VDC

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



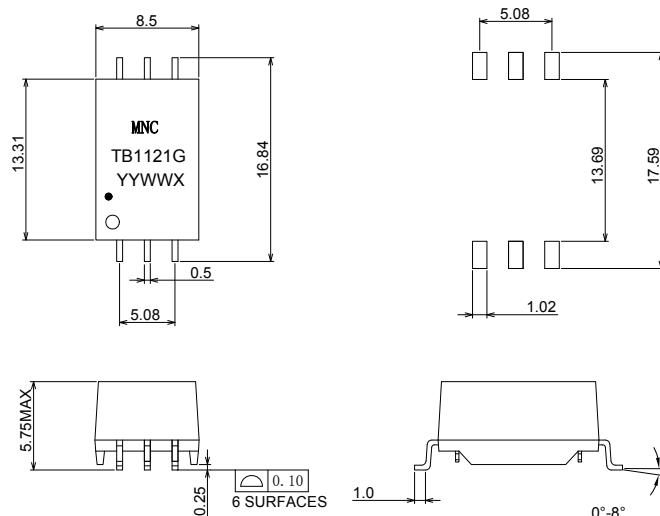
- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHS Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- Creepage Distance >11mm.
- Functional Insulation
- Working Voltage: 1000V For 15 Years
- Insulation Resistance: 400 MΩ MIN
- Passed EMC Measurement



### Electrical Specifications @ 25°C

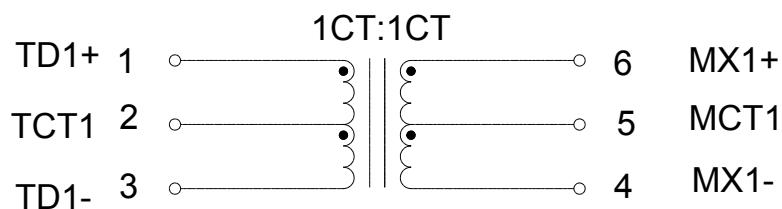
Part Number	Turns Ratio (±2%)	OCL(uH Min/Max) @100KHz,0.1V	LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	DCR (Ω max)		HI-POT	
	(1-3):(6-4)	-40°C ≤ T ≤ -30°C   -30°C ≤ T ≤ 125°C	100KHz, 0.1V	4MHz	4MHz	1-3	6-4	1mA 60S	
TB1121G	1 : 1	135/370	150/500	0.5	-0.25	-20	0.45	0.85	4300VDC

### MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

### SCHEMATICS



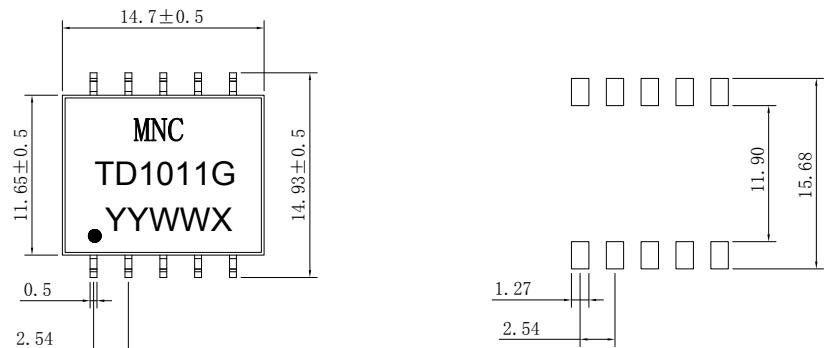
- SMT Package contains transmit transformers.
- RoHs Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- Creepage Distance >10mm.
- Functional Insulation
- Working Voltage: 1000V For 15 Years
- Insulation Resistance:400 MΩ MIN
- Passed EMC Measurement



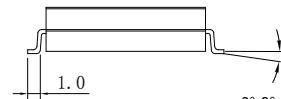
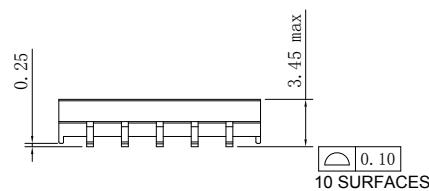
### Electrical Specifications @ 25°C

Part Number	Turns Ratio (±2%)	OCL(uH Min/Max) @100KHz,0.1V	LK (uH Max)	DCR (Ω max)@25°C		Insertion Loss (dB Max)	Return Loss (dB Min)	CROSSTALK (dB Min)	CMRR (dB Min)		HI-POT
	PRI-SEC	-40°C TO 125°C.	100KHz, 0.1V	PRI	SEC	4MHz	4MHz	4MHz	1-10MHz	10-1000MHz	1mA 60S
TD1011G	1 : 1	150uH MIN,450uH MAX	0.5	0.45	0.85	-0.25	-20	-50	-35	-20	4300VDC

### MECHANICAL

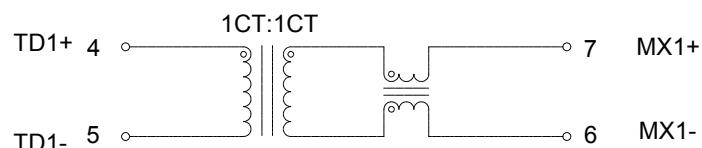
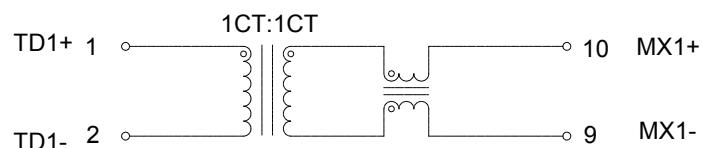


SUGGESTED LAND PATTERN

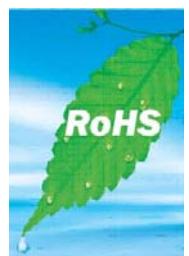


Unless otherwise specified all tolerances are:±0.25 in mm

### SCHEMATICS

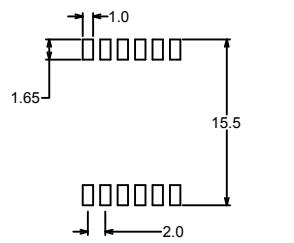
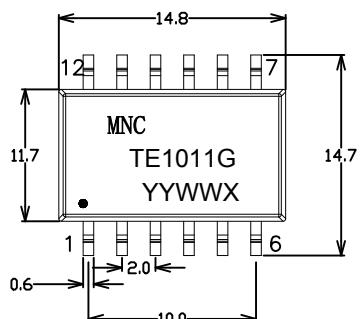


- SMT Package contains transmit transformors.
- RoHs Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- Creepage Distance >10mm.
- Working Voltage: 1600V For 15 Years
- Insulation Resistance:400 MΩ MIN

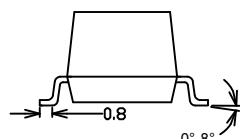
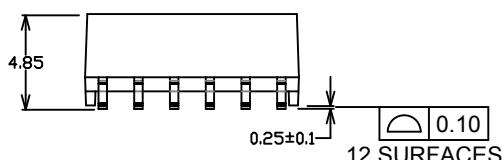


Electrical Specifications @ 25°C												
Part Number	Turns Ratio (±2%)	OCL (uH Min/MAX)	LK (uH Max)	Cww (pF Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	DCR Ω max		CMRR (dB Min)			
	(PRI):(SEC)	100KHz, 0.1V	100KHz, 0.1V	100KHz, 0.1V	4MHz	4MHz	PRI	SEC	1-10MHz	10-200MHz	200-1000MHz	
TE1011G	1 : 1	150 / 450	0.5	25	-0.25	-20	0.45	0.85	-35	-20	-6	4300VDC

### MECHANICAL

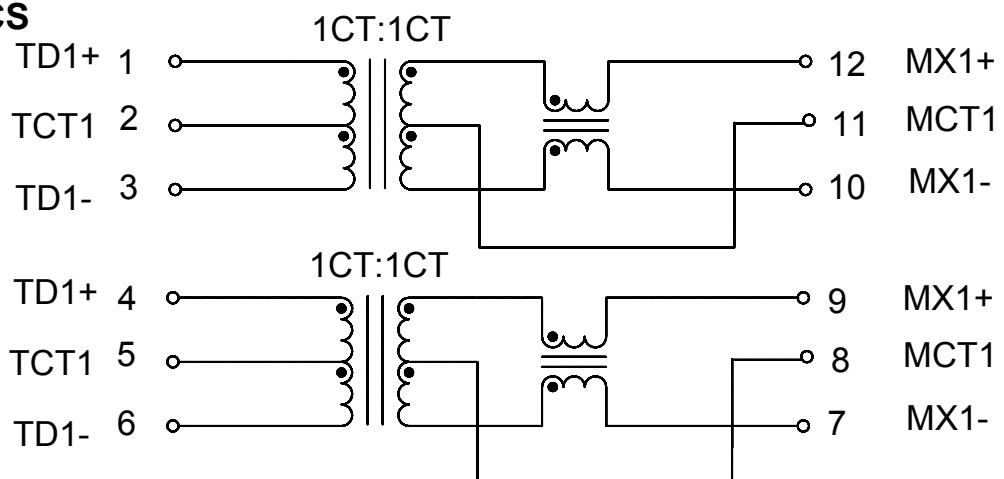


SUGGESTED PAD LAYOUT

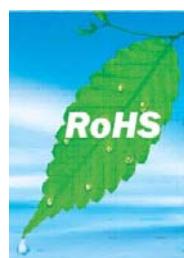


Unless otherwise specified all tolerances are:±0.25 in mmPads

### SCHEMATICS



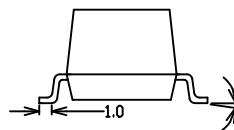
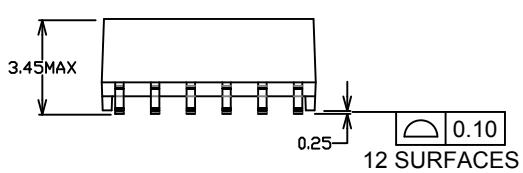
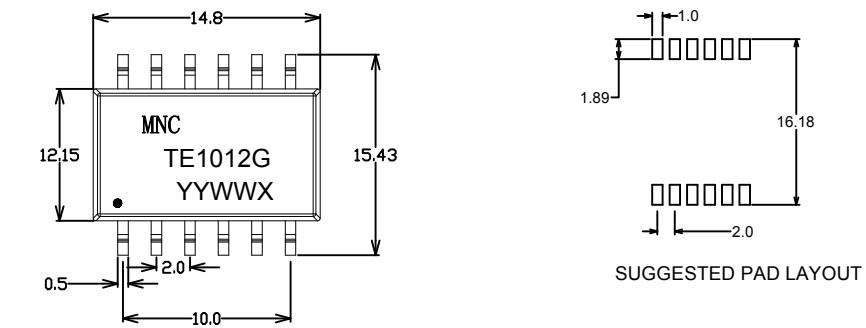
- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHs Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- Creepage Distance >10mm.
- Working Voltage: 1000V For 15 Years
- Insulation Resistance: 400 MΩ MIN



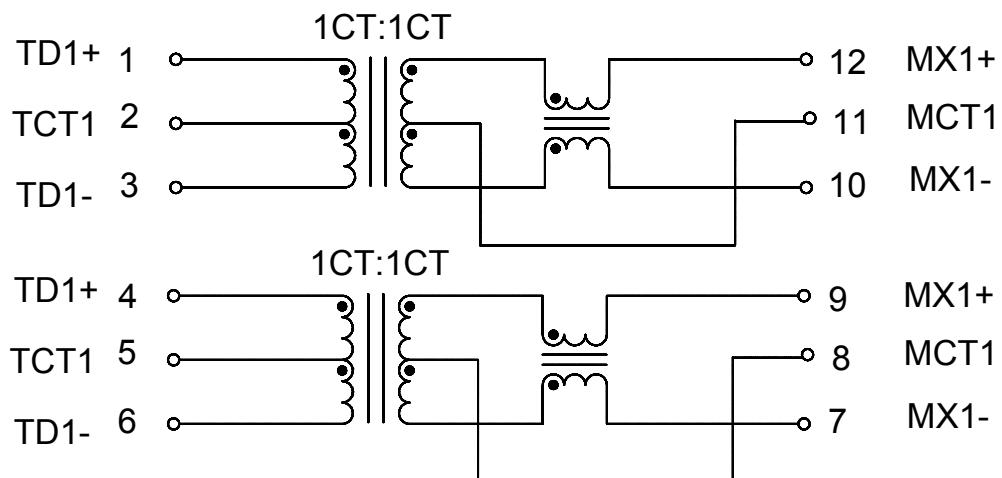
#### Electrical Specifications @ 25°C

Part Number	Turns Ratio (±2%)	OCL (uH Min)	LK (uH Max)	C <sub>Ww</sub> (pF Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	DCR Ω max		CMRR (dB Min)		CROSSTALK (dB Min)	HI-POT
	(PRI):(SEC)	100KHz, 0.1V	100KHz, 0.1V	100KHz, 0.1V	4MHz	4MHz	PRI	SEC	1-10MHz	10-200MHz	4MHz	1mA 60S
TE1012G	1 : 1	150 TO 450	0.5	25	-0.25	-20	0.45	0.85	-35	-20	-50	4300VDC

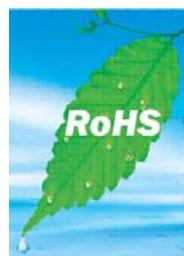
#### MECHANICAL



#### SCHEMATICS

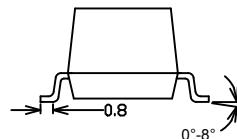
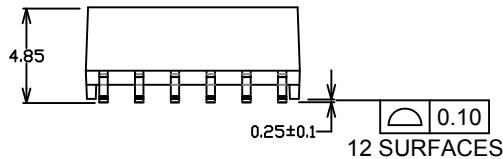
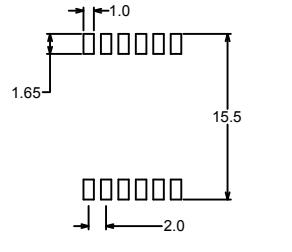
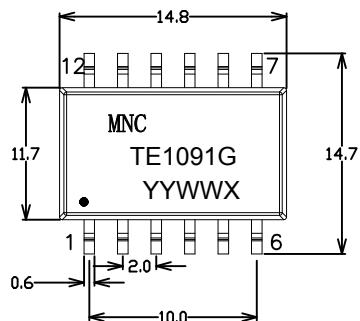


- SMT Package contains transmit transformers.
- RoHS Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.
- Creepage Distance >10mm.
- Working Voltage: 1600V For 15 Years
- Insulation Resistance: 400 MΩ MIN



Electrical Specifications @ 25°C										
Part Number	Turns Ratio (±2%)	OCL (uH Min) 100KHz, 0.1V	LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	Corss Talk (dB Min)		DCR Ω max	CMRR (dB Min)	HI-POT
(PRI):(SEC)	-40°C~+125°C	100KHz, 0.1V	4MHz	4MHz	1-10MHz	10-100MHz	25°C	1-200MHz	1mA 60S	
TE1091G	1 : 1	600	0.5	-0.25	-22	-50	-50+20*log10(f/10MHz)	1.2	-30	4300VDC

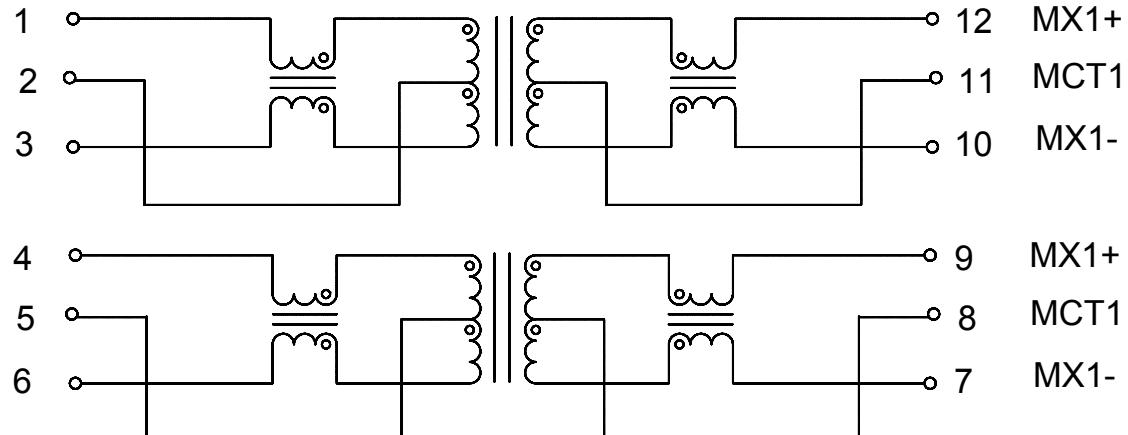
## MECHANICAL



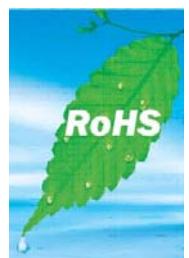
Unless otherwise specified all tolerances are: ±0.25 in mmPads

## SCHEMATICS

1CT:1CT



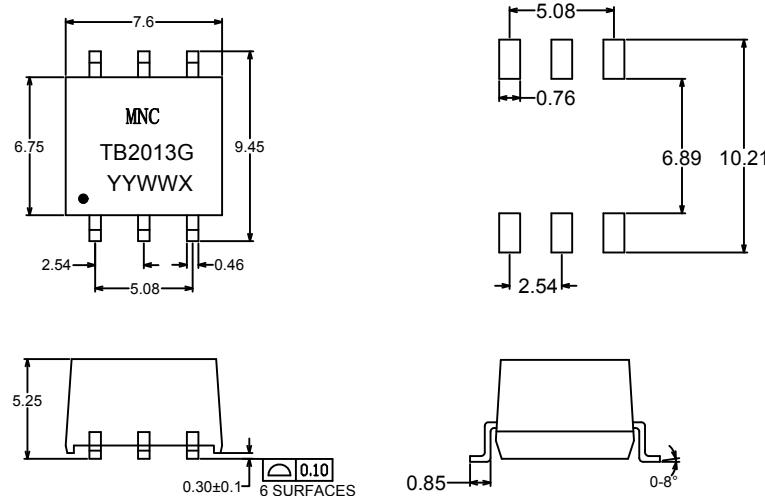
- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHS Compliant.
- Operating Temperature Range: -40°C To 125°C.
- AEC-Q200 Qualified.
- Moisture Sensitivity Level: 1.
- Working voltage:1000V DC.



#### Electrical Specifications @ 25°C

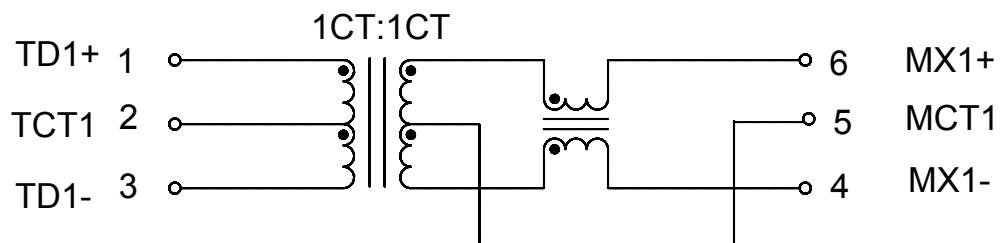
Part Number	Turns Ratio (±2%)	OCL(uH Min)	LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	DCR Ω max		C <sub>ww</sub> pF max	CMRR (dB Min)		HI-POT
	(1-3):(6-4)	100KHz, 0.1V	100KHz, 0.1V	4MHz	4MHz	1-3	6-4	100KHz, 0.1V	1-100MHz	100-200MHz	1mA 60S
TB2013G	1 : 1	300	0.5	-0.30	-20	0.60	1.20	28	-35	-20	4300VDC

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



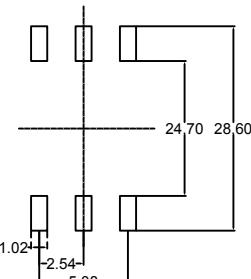
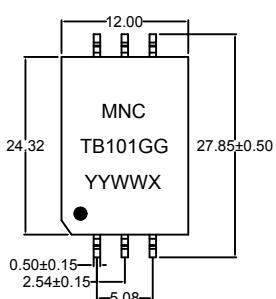
- RoHS compliant.
- Creepage distance>22mm.
- Clearance distance>20mm.
- Storage temperature:-40°C to +125°C.
- Operating temperature:-40°C to +125°C.



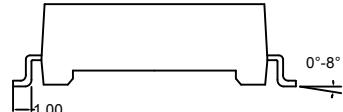
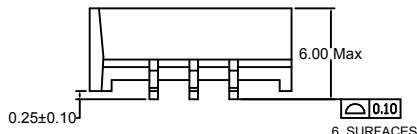
### Electrical Specifications @25°C

Part Number	Turns Ratio (±2%)	OCL(uH) @100KHz,0.1V	DC Resistance (Ω Max)		LK(uH Max) 100KHz, 0.1V	Insertion Loss (dB Max)	Return Loss (dB Min)	CMRR(dB Min)		HI-POT
	(1-3):(6-4)	(1-3)=(6-4)	(1-3)	(6-4)	(1-3) shorted (6-4)	4MHz	4MHz	1-10MHz	10.1-100MHz	1mA 60s
TB101GG	1:1	150 Min 450 Max	0.80	1.0	0.70	0.50	20	-35	-20	6000VDC

### MECHANICAL

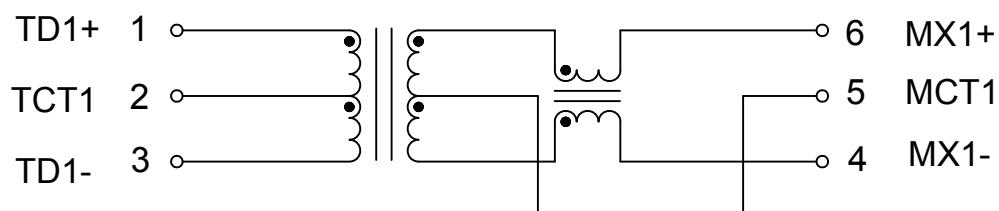


SUGGESTED PAD LAYOUT

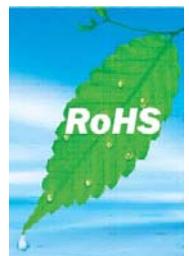


Unless otherwise specified all tolerances are:±0.25 in mm

### SCHEMATICS



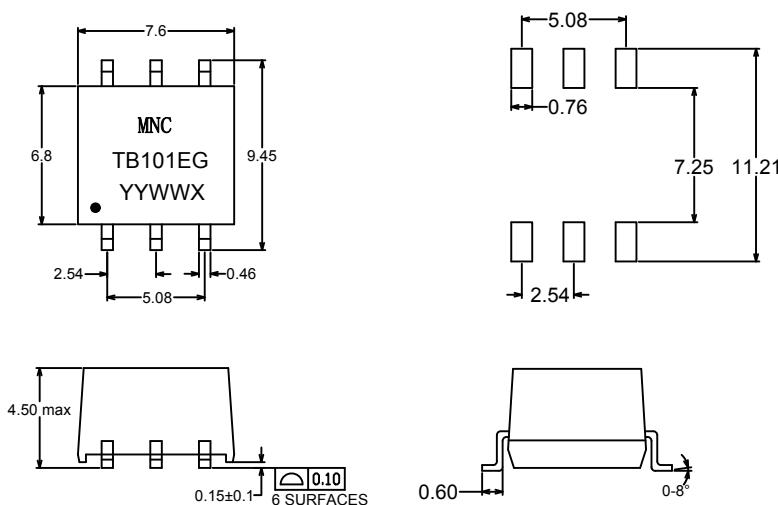
- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHS Compliant.
- Operating Temperature Range: -40°C To 125°C.
- AEC-Q200 Qualified.
- Moisture Sensitivity Level: 1.
- Functional Insulation.
- 1000V For 15 Years Operation.



#### Electrical Specifications @ 25°C

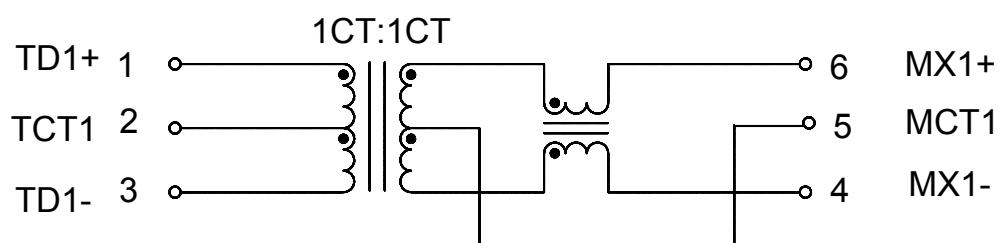
Part Number	Turns Ratio (±2%)	OCL(uH Min)	LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	DCR Ω max		Cww pF max	CMRR (dB Min)		HI-POT
	(1-3):(6-4)	100KHz, 0.1V	100KHz, 0.1V	4MHz	4MHz	1-3	6-4	100KHz, 0.1V	1-100MHz	100-200MHz	1mA 60S
TB101EG	1 : 1	150	0.5	-0.25	-22	0.45	0.85	50	-35	-20	3000VAC

## MECHANICAL

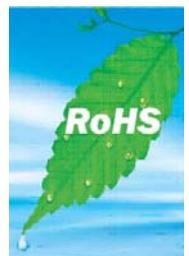


Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

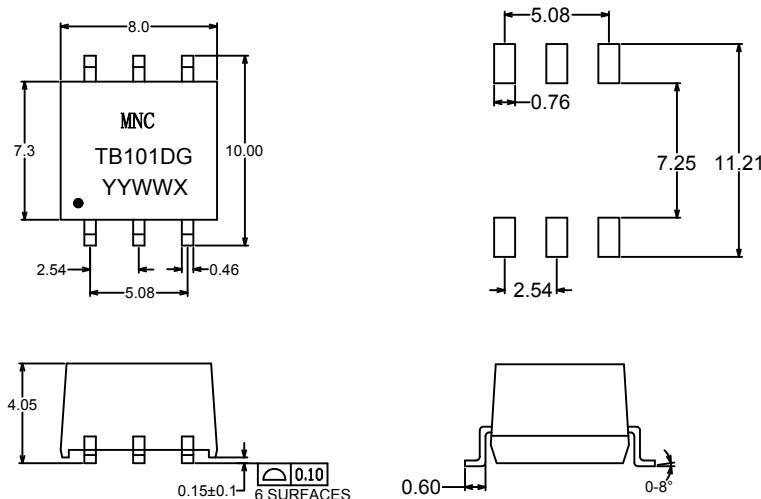


- SMT Package contains transmit transformers.
- Models matched to leading transceivers.
- RoHS Compliant.
- Operating Temperature Range: -40°C To 125°C.
- AEC-Q200 Qualified.
- Moisture Sensitivity Level: 1.
- Functional Insulation.
- 1000V For 15 Years Operation.



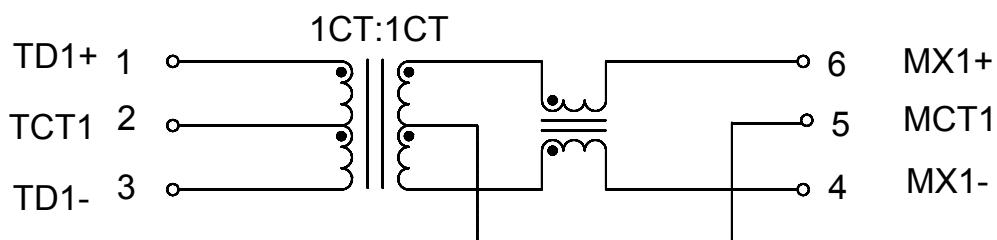
Electrical Specifications @ 25°C										
Part Number	Turns Ratio (±2%)	OCL(uH Min/Max)	LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)	DCR Ω max		C <sub>ww</sub> pF max	CMRR (dB Min)	
	(1-3):(6-4)	100KHz, 0.1V	100KHz, 0.1V	4MHz	4MHz	1-3	6-4	100KHz, 0.1V	1-100MHz	100-200MHz
TB101DG	1 : 1	150/500	0.5	-0.25	-20	0.45	0.85	50	-35	-28
										3000VAC

## MECHANICAL

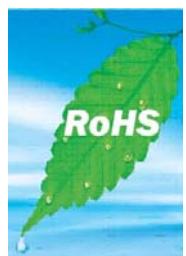


Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



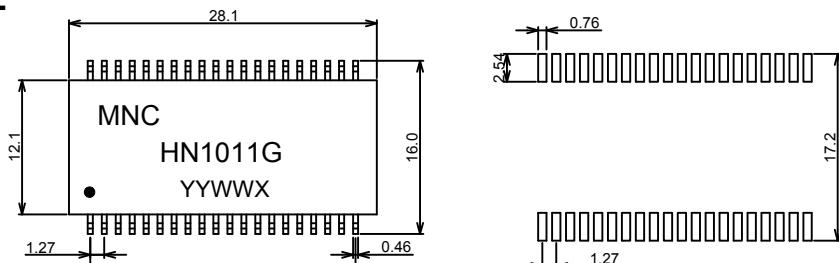
- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- Storage temperature range: -40°C to +105°C.
- Operating temperature range: -40°C to +105°C.
- AEC-Q200 Qualified.



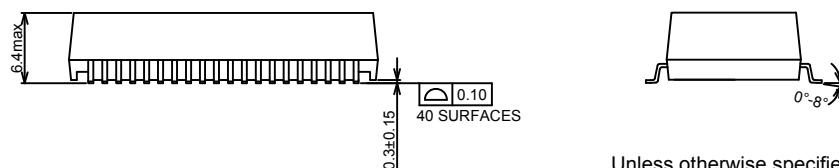
### Electrical Specifications @25°C

Part Number	OCL(uH Min) 100KHz,0.1V With 8mA DC Bias	Turns Ratio ( $\pm 2\%$ )	Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)		DCMR (dB Min)	DCR ( $\Omega$ Max)	HI-POT (Vrms)	
	-40°C To +105°C			100KHz	1-125MHz	0.1-30MHz	30-60MHz	60-80MHz	1MHz	10-100MHz		
HN1011G	350	1CT:1CT	-1.2	-0.2-0.002*f <sup>1.4</sup>	-16	-10+20log(f/60)	-10	-50	-55+17*log(f/10)	-50+17*log(f/5)	0.60	1500

### MECHANICAL

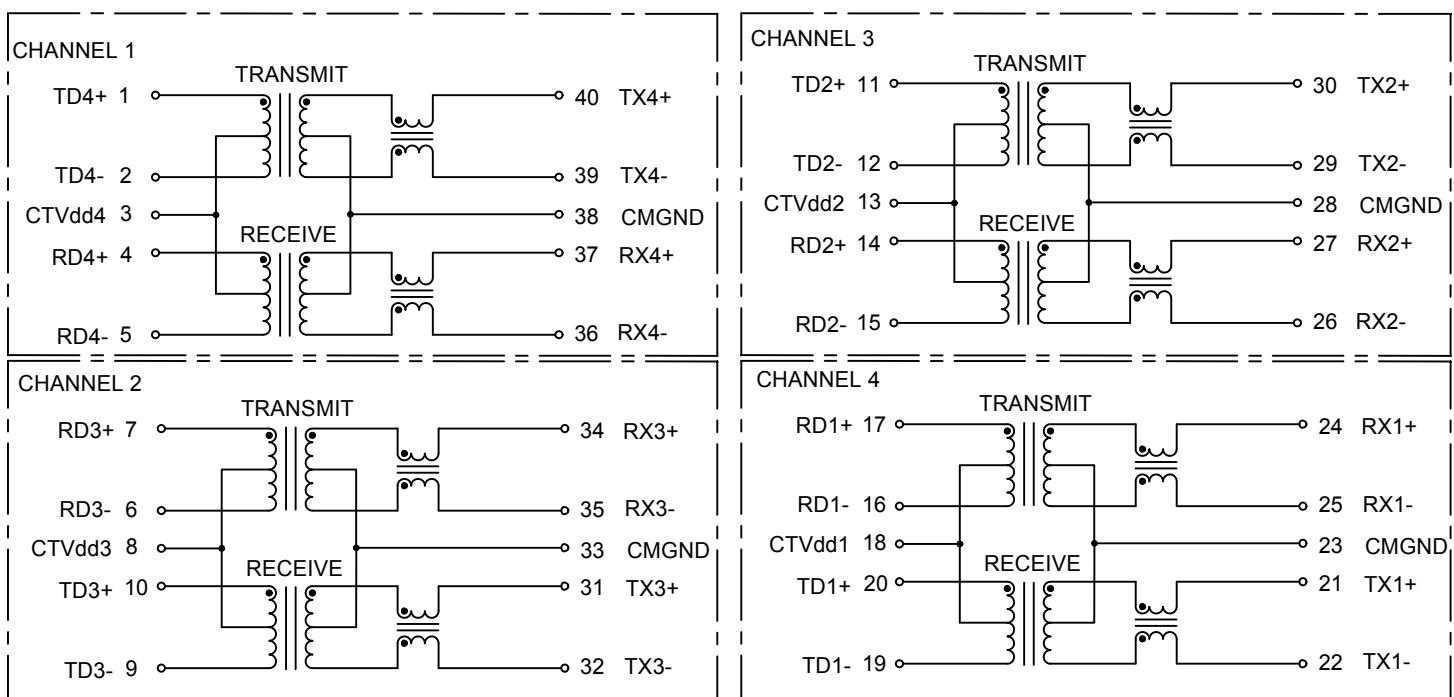


SUGGESTED PAD LAYOUT

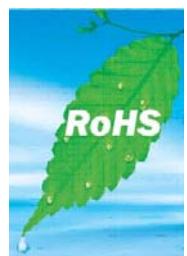


Unless otherwise specified all tolerances are:  $\pm 0.25$  in mm

### SCHEMATICS



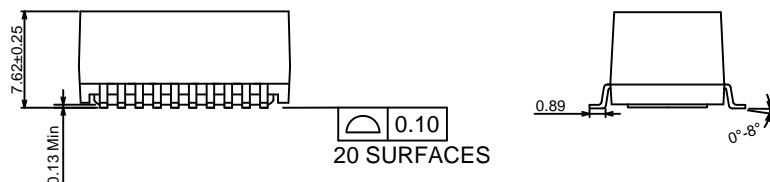
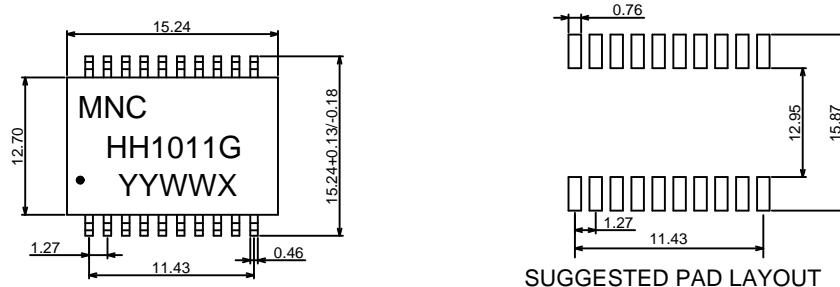
- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- Storage temperature range: -40°C to +125°C.
- Operating temperature range: -40°C to +125°C.
- AEC-Q200 Qualified.



Electrical Specifications @25°C						
Part Number	OCL(uH Min) @100KHz,0.1V With 8mA DC Bias	Turns Ratio (±2%)	Insertion Loss (dB Max)			HI-POT (Vrms) 1 minute
			0.1-30KHz	60MHz	80MHz	
HH1011G	350	1CT:1CT	-1.0	-2.0	-2.5	-3.5
						4000

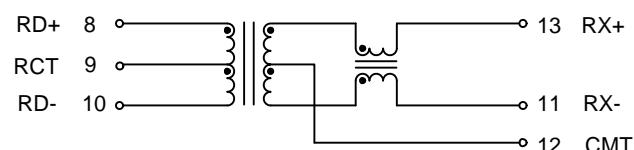
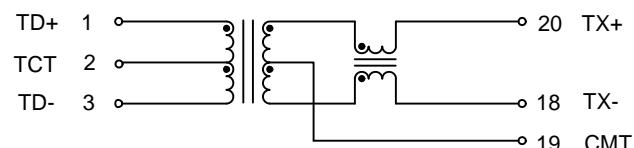
Electrical Specifications @25°C													
Return Loss (dB Min)							Cross Talk (dB Min)				DCMR (dB Min)		
5MHz	30MHz	50MHz	60MHz	80MHz	100MHz	1MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	200MHz
-18	-9	-6	-5	-3	-2	-45	-30	-27	-25	-36	-32	-30	-25

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



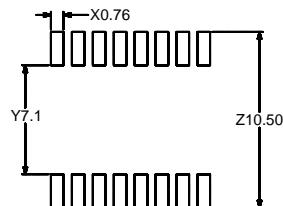
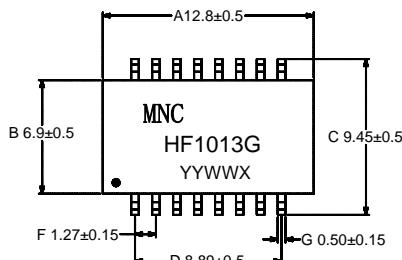
- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Open Header .
- Operating temperature range: -40°C to +125°C
- AEC-Q200 Qualified



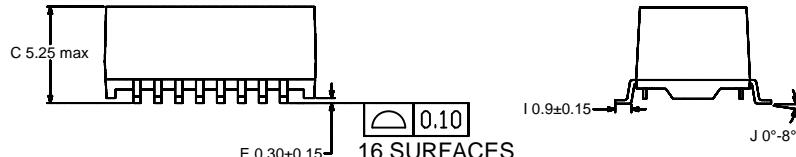
### Electrical Specifications @25°C

Part Number	OCL(uH Min) @100KHz,0.2V	Turns Ratio (±2%)	Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
				0.5-100MHz	0.5-30MHz	30.1-60MHz	60.1-80MHz	0.5-40MHz	40.1-100MHz	
HF1013G	350	1CT:1CT	-1.1	-18	-18+20*log10(f/30)	-12	-35	-30	-30	1500

## MECHANICAL

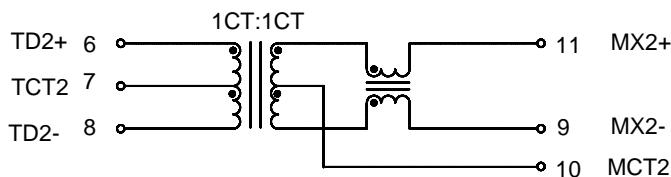
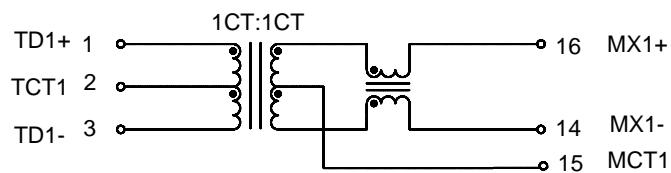


SUGGESTED PAD LAYOUT



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



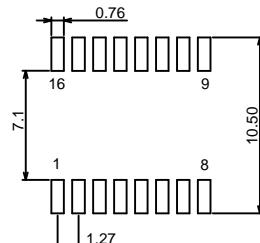
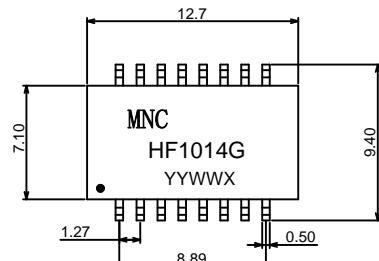
- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- Storage temperature range: -40°C to +125°C.
- Operating temperature range: -40°C to +125°C.
- AEC-Q200 Qualified.



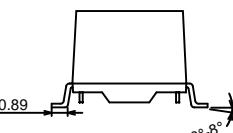
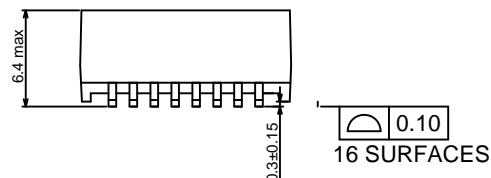
### Electrical Specifications @25°C

Part Number	OCL(uH Min) @100KHz,0.1V With 8mA DC Bias	Turns Ratio (±2%)	Insertion Loss (dB Max)		Return Loss (dB Min)		DCMR (dB Min)	HI-POT (Vrms)
			1-100MHz	125MHz	5MHz	30-80MHz		
HF1014G	350	1CT:1CT	-1.0	-3.0	-18	-16+20log(f/30)	-50+17log(f/5)	2500

### MECHANICAL

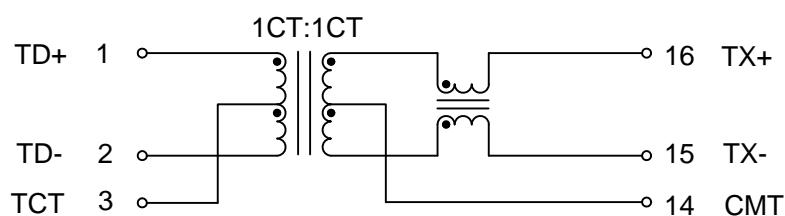


SUGGESTED PAD LAYOUT



Unless otherwise specified all tolerances are:±0.25 in mm

### SCHEMATICS



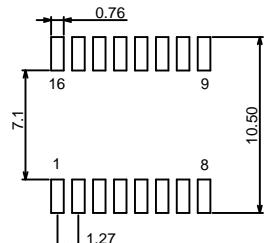
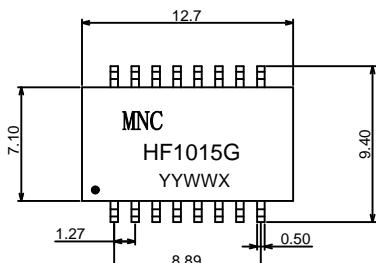
- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- Storage temperature range: -40°C to +125°C.
- Operating temperature range: -40°C to +125°C.
- AEC-Q200 Qualified.



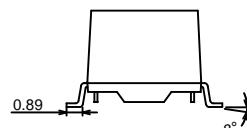
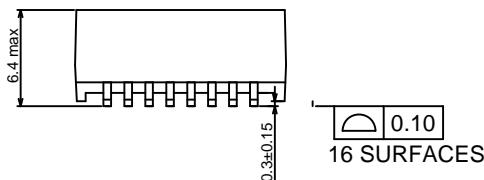
Electrical Specifications @25°C										
Part Number	OCL(uH Min) @100KHz,0.1V			Turns Ratio (+2%)		Insertion Loss (dB Max)@1-50MHz		Return Loss (dB Min) Transmit		
	+25°C	-40°C	+95°C	Transmit	Receive	Transmit	Receive	0.5-40MHz	60MHz	80MHz
HF1015G	200	100	100	1:1	1.5:1	-1.0	-3.0	-18	-14.5	-12

Electrical Specifications @25°C										
Part Number	Return Loss (dB Min) Receive				Cross Talk (dB Min)			Cww (pF Max)	HI-POT (Vrms)	
	0.5MHz	40MHz	60MHz	80MHz	30MHz	60MHz	100MHz	100KHz,0.1V	6s	
HF1015G	-18	-10	-8	-6	-45	-35	-30	18	1650	

## MECHANICAL

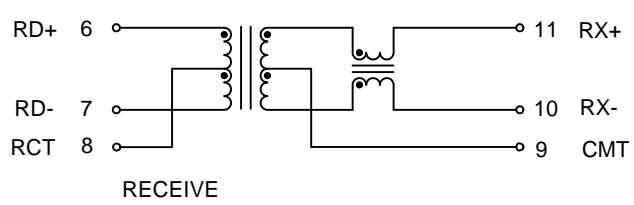
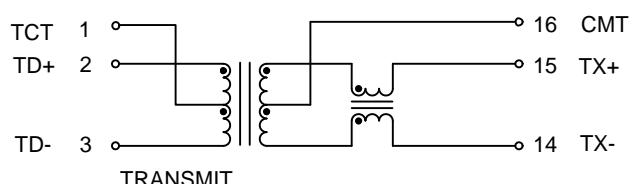


SUGGESTED PAD LAYOUT



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



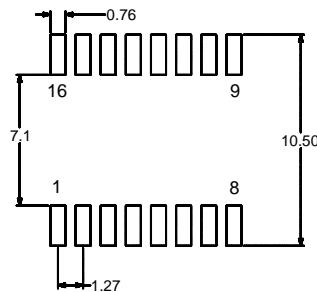
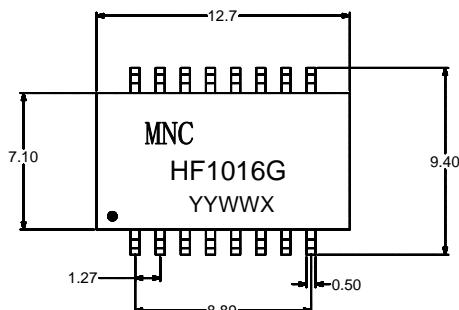
- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- AEC-Q200 qualified.
- Storage temperature range: -40°C to +125°C.
- Operating temperature range: -40°C to +125°C.



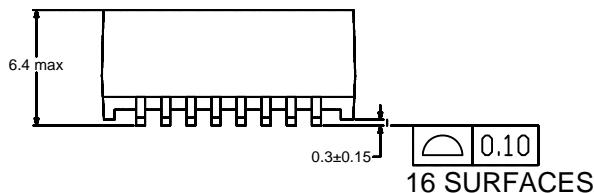
### Electrical Specifications @25°C

Part Number	OCL(uH Min) @100KHz,0.1V		Turns Ratio (±5%)	Insertion Loss (dB Max)		Return Loss (dB Min)		Cross talk (dB Min)		DCMR (dB Min)	HI-POT (Vrms)
	25°C	-40°C to +125°C		1-80MHz	125MHz	5MHz	30-80MHz	1MHz	5-100MHz		
HF1016G	600	500	1:1	-1.0	-3.0	-25	-16+20*log(f/30)	-62	-45+21*log(f/30)	-50+17*log(f/5)	2500

## MECHANICAL

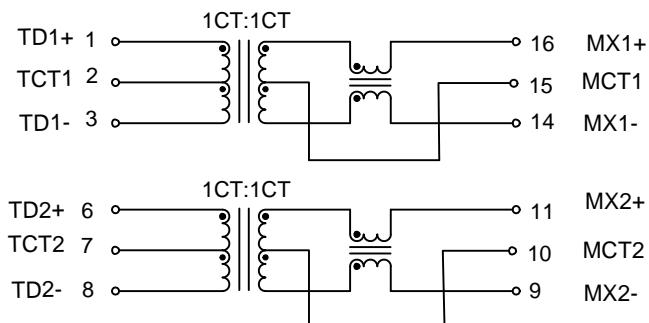


SUGGESTED PAD LAYOUT



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- Storage temperature : -40°C to +125°C.
- Operating temperature : -40°C to +125°C.
- AEC-Q200 Qualified.



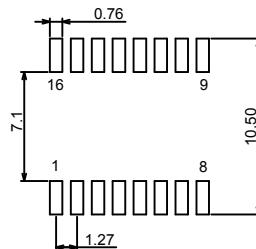
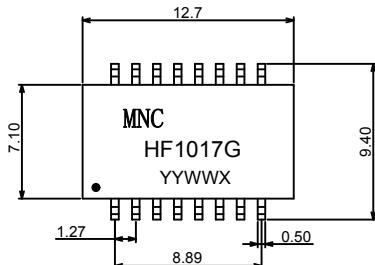
#### Electrical Specifications @25°C

Part Number	OCL(uH Min) @100KHz,0.1V	Turns Ratio (±2%)	LK(uH Max) @100KHz,0.1V		DCR (Ω Max)	
	With 8mA DC Bias		1-3With16-14 shorted	6-8With11-9 shorted	1-3,6-8	16-14,11-9
HF1017G	350	1CT:1CT	0.5	0.5	1.4	1.0

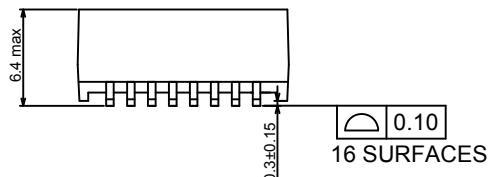
#### Electrical Specifications @25°C

Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)		DCMR (dB Min)		HI-POT (Vrms)
	1-100MHz	1-40MHz	40-100MHz	1-60MHz	60-100MHz	1-60MHz	60-100MHz	30MHz	60MHz
-1.1	-16	-10+20*log(f/80)	-40	-35	-37	-30	-35	-35	1500

## MECHANICAL

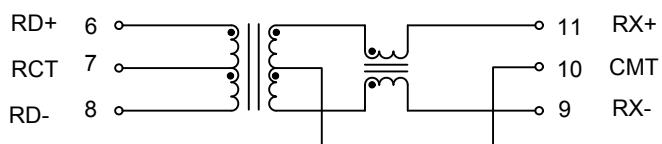
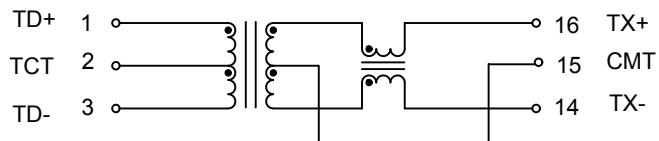


SUGGESTED PAD LAYOUT

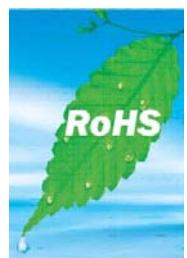


Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

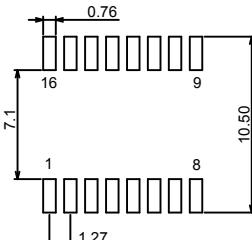
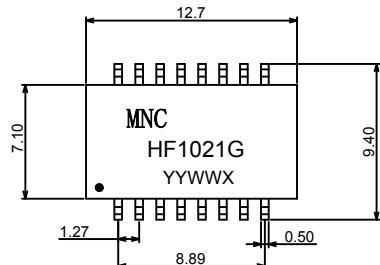


- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- Storage temperature : -40°C to +125°C.
- Operating temperature : -40°C to +125°C.
- AEC-Q200 Qualified.

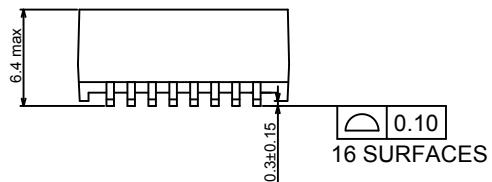


Electrical Specifications @25°C										
Part Number	OCL(uH Min) @100KHz,0.1V	Turns Ratio (±2%)	DCR (Ω Max)	Insertion Loss (dB Max)	Return Loss (dB Min)			CMRR (dB Min)	Cross talk (dB Min)	HI-POT (Vrms)
	With 8mA DC Bias				1-100MHz	1-30MHz	30-60MHz			
HF1021G	350	1CT:1CT	1.2	-1.15	-18	-13	-12	-37	-28	-40
										-35
										1500

## MECHANICAL

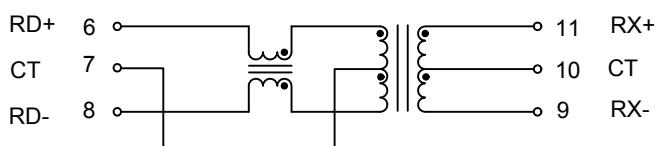
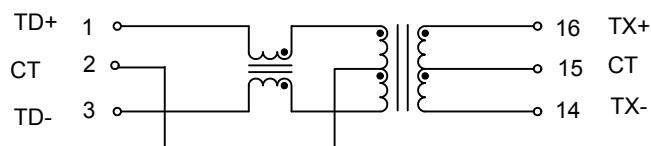


SUGGESTED PAD LAYOUT

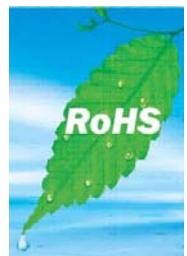


Unless otherwise specified all tolerances are: $\pm 0.25$  in mm

## SCHEMATICS



- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- Storage temperature : -40°C to +125°C.
- Operating temperature : -40°C to +125°C.
- AEC-Q200 Qualified.



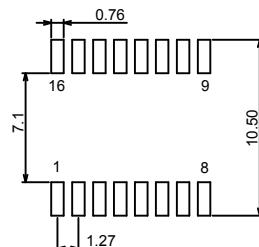
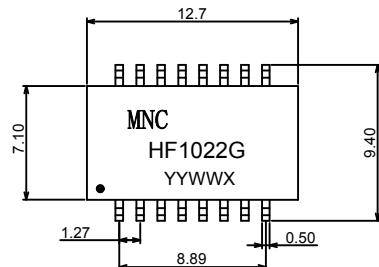
### Electrical Specifications @25°C

Part Number	OCL(uH Min) @100KHz,0.1V	Turns Ratio (±2%)	LK(uH Max) @100KHz,0.1V		DCR (Ω Max)	
	With 8mA DC Bias		1-3With16-14 shorted	6-8With11-9 shorted	1-3,6-8	16-14,11-9
HF1022G	350	1CT:1CT	0.5	0.5	1.4	1.0

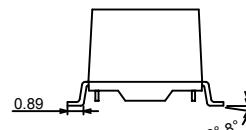
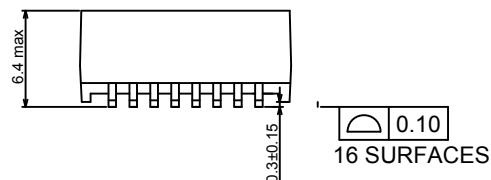
### Electrical Specifications @25°C

Insertion Loss (dB Max)	Return Loss (dB Min)	Cross talk (dB Min)	CMRR (dB Min)	DCMR (dB Min)	HI-POT (1ma,60s)
1-100MHz	1-40MHz	40-100MHz	1-60MHz	60-100MHz	30MHz 60MHz
-1.1	-16	-10+20*log(f/80)	-40	-35	-37 -30 -35 -35

## MECHANICAL

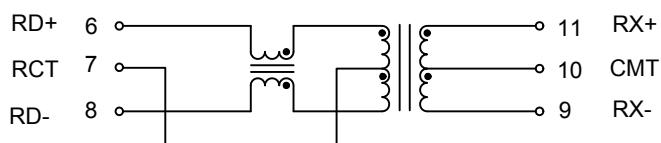
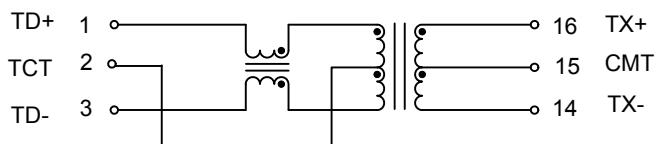


SUGGESTED PAD LAYOUT



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



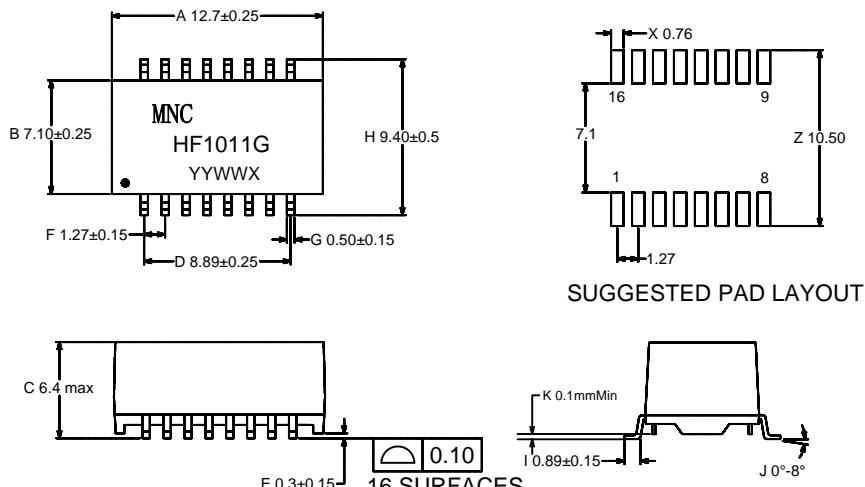
- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Open Header .
- Operating temperature range: -40°C to +125°C
- AEC-Q200 Qualified



### Electrical Specifications @25°C

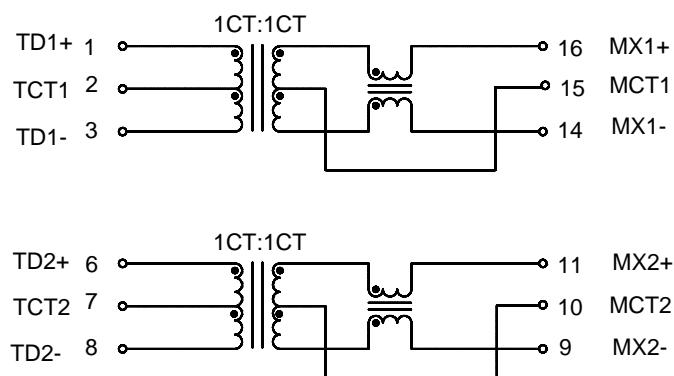
Part Number	OCL(uH Min) @100KHz,0.2V With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)		CMRR (dB Min) 0.5-100MHz	HI-POT (Vrms)	
				0.5-100MHz	0.5-30MHz	30.1-60MHz	60.1-80MHz	0.5-40MHz	40.1-100MHz		
HF1011G	350	1CT:1CT	-1.1	-18	-18+20*log(f/30)		-12	-35	-30	-30	1500

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



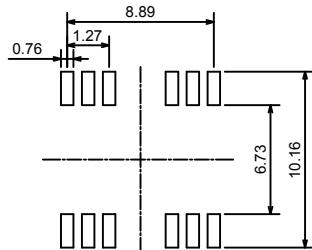
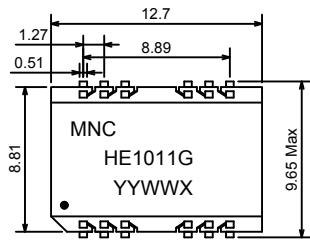
- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- Storage temperature range: -40°C to +125°C.
- Operating temperature range: -40°C to +125°C.
- AEC-Q200 Qualified.



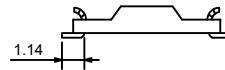
### Electrical Specifications @25°C

Part Number	OCL(uH Min) @100KHz,0.1V	Turns Ratio (±2%)	Insertion Loss (dB Max)		Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)		DCR (Ω Max)	HI-POT (Vrms)
	With 8mA DC Bias		100KHz	1-125MHz	0.1-40MHz	40-100MHz	1MHz	10-100MHz	2MHz	30-200MHz		
HE1011G	350	1CT:1CT	-1.2	-0.2-0.002*f <sup>1.4</sup>	-16	-10+20log(f/80)	-50	-55+22*log(f/10)	-42	-15+20log(f/200)	0.65	1500

## MECHANICAL

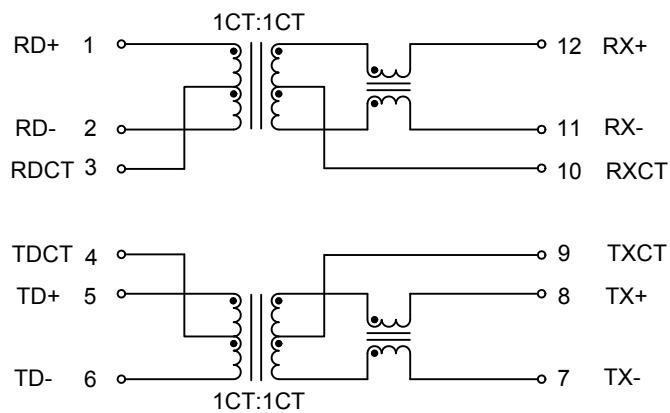


SUGGESTED PAD LAYOUT



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

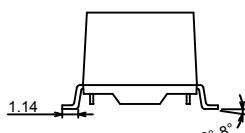
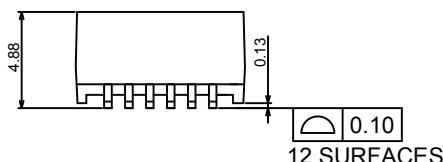
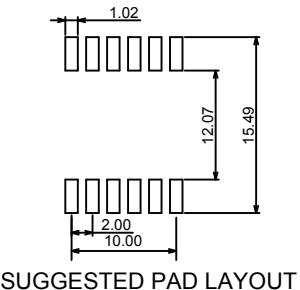
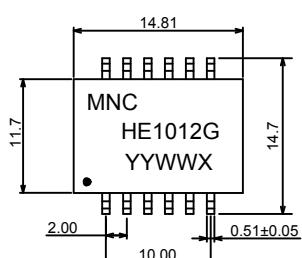


- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- Storage temperature range: -40°C to +125°C.
- Operating temperature range: -40°C to +125°C.
- AEC-Q200 Qualified.



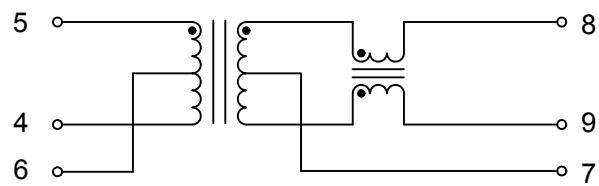
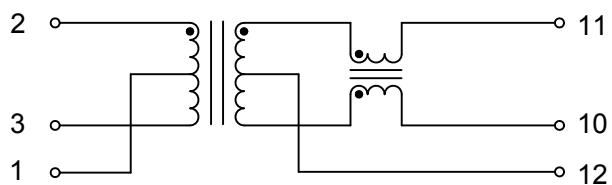
Electrical Specifications @25°C									
Part Number	OCL(uH Min) @100KHz,0.1V	Turns Ratio (±2%)	DCR (Ω Max)		Insertion Loss (dB Max)	Return Loss (dB Max)	Cross Talk (dB Min)	CMRR (dB Min)	CDMR (dB Min)
	-40°C To +125°C		Transformer side	CM Choke side					
HE1012G	120	1CT:1CT	0.50	0.80	-1.0	-20	-40	-20	-30
									1500

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



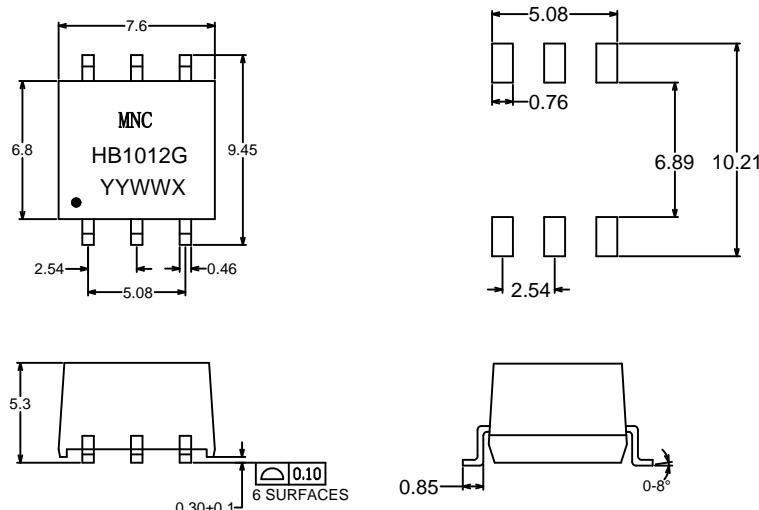
- Meets IEEE 802.3 Standards.
- Models matched to leading transceivers.
- RoHS Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- AEC-Q200 Qualified.



#### Electrical Specifications @ 25°C

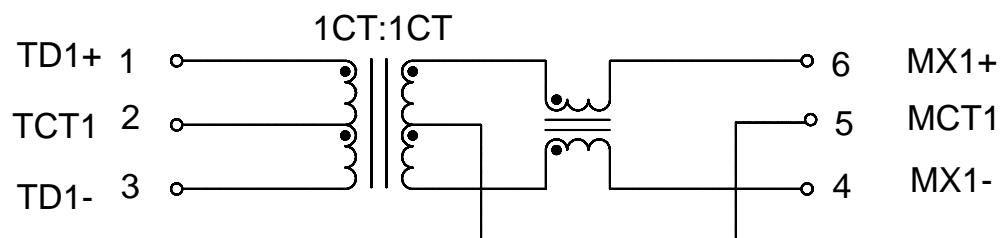
Part Number	Turns Ratio (±2%)	OCL(uH Min) @100KHz,0.1V	LK (uH Max)	Insertion Loss (dB Max)	Return Loss (dB Min)			CMRR (dB Min)	HI-POT
	(1-3):(6-4)	With 8mA DC Bias	100KHz, 0.1V	1-100MHz	30MHz	60MHz	100MHz	1-100MHz	1mA 60S
HB1012G	1 : 1	350	0.5	-1.0	-20	-14	-9	-30	1500VAC

## MECHANICAL

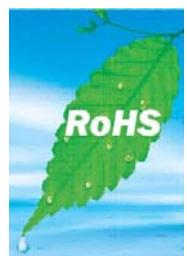


Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

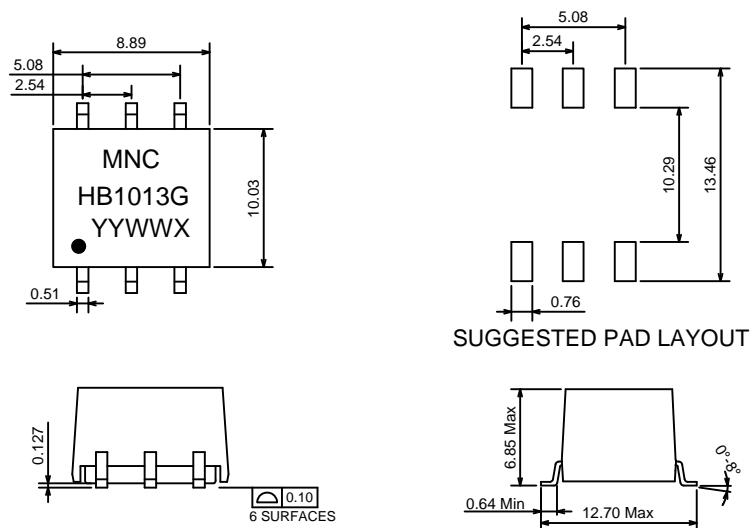


- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Open Header.
- Storage temperature range: -40°C to +125°C.
- Operating temperature range: -40°C to +125°C.
- AEC-Q200 Qualified.



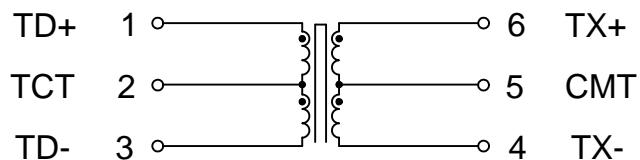
Electrical Specifications @25°C							
Part Number	OCL(uH ) @100KHz,0.1V -40°C To +125°C	Turns Ratio (±2%)	Insertion Loss (dB Max)			Return Loss (dB Min)	
			1-60MHz	80MHz	125MHz	4MHz	30-80MHz
HB1013G	150 MIN 370 Max	1CT:1CT	-1.0	-1.25	-3.0	-16	-14+20Log(f/30)
							4300

## MECHANICAL

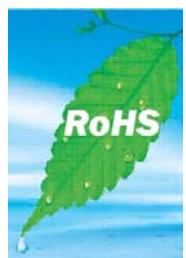


Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



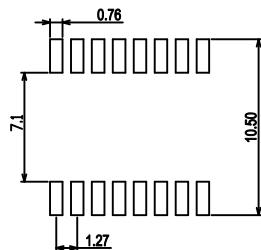
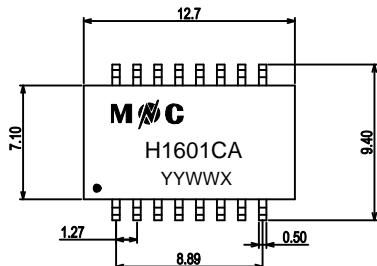
- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Open Header .
- Operating temperature range: -40°C to +125°C
- AEC-Q200 Qualified



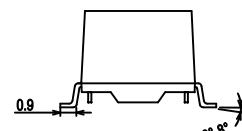
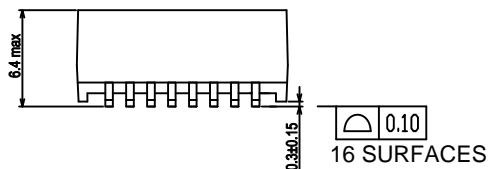
### Electrical Specifications @25°C

Part Number	OCL(uH Min) @100KHz,0.2V With 8mA DC Bias	Turns Ratio (±2%)	Insertion Loss (dB Max)		Return Loss (dB Min)		Cross talk (dB Min)		DCMR (dB Min) 5-200MHz	HI-POT (Vrms) 1500
			1-100MHz	125MHz	5MHz	30-80MHz	1MHz	5-100MHz		
H1601CA	350	1CT:1CT	-1.1	-3.0	-18	-16+26log(f/30)	-62	-45+21*log(f/30)	-50+17log(f/5)	1500

## MECHANICAL

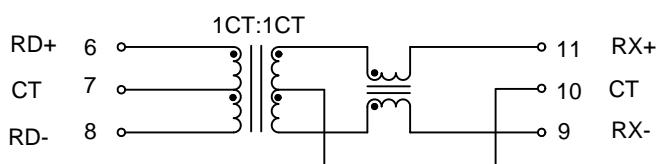
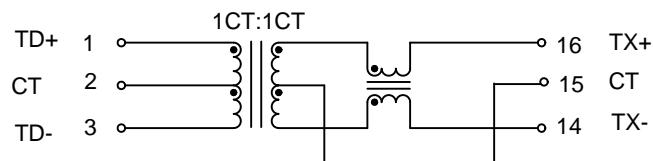


SUGGESTED PAD LAYOUT



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

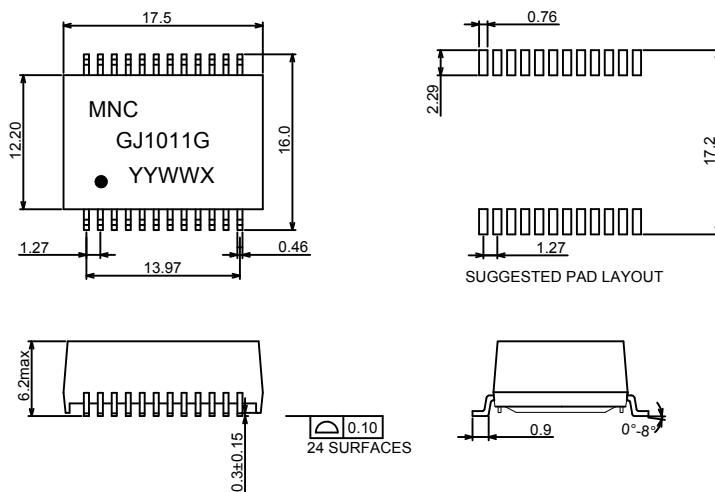


- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- Storage temperature range: -40°C to +125°C.
- Operating temperature range: -40°C to +125°C.
- AEC-Q200 Qualified.



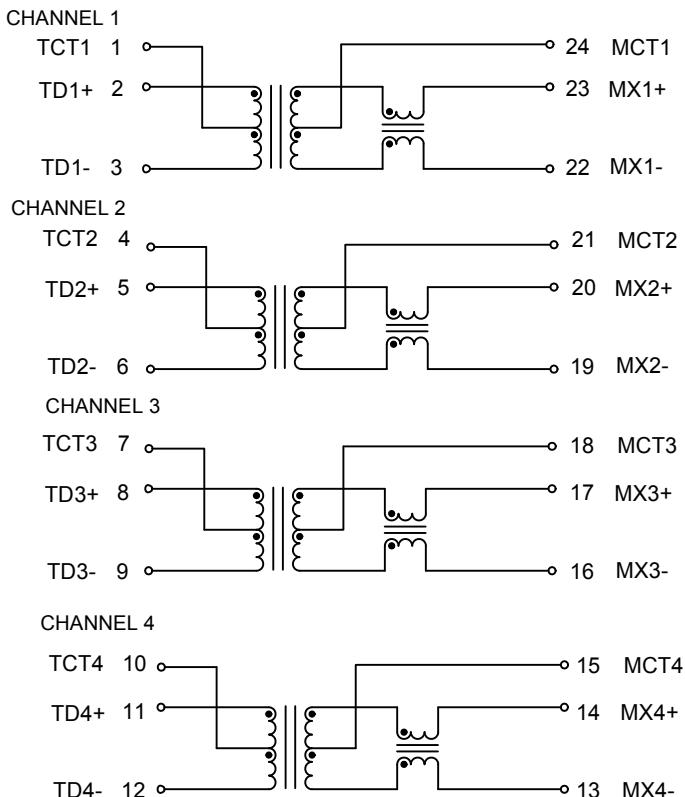
Electrical Specifications @25°C												
Part Number	OCL(uH Min) @100KHz,0.1V	Turns Ratio (±2%)	Insertion Loss (dB Max)		Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	DCR (Ω Max)	Hi-POT (Vrms)	
	With 8mA DC Bias		100KHz	1-125MHz	0.1-40MHz	40-100MHz	1MHz	10-100MHz	2MHz	30-200MHz	1/2 Winding	60s
GJ1011G	350	1CT:1CT	-1.2	-0.2-0.002*f <sup>1.4</sup>	-16	-10+20log(f/80)	-50	-55+22*log(f/10)	-50	-15+20log(f/200)	0.65	1500

## MECHANICAL

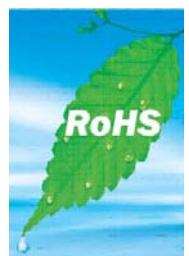


Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



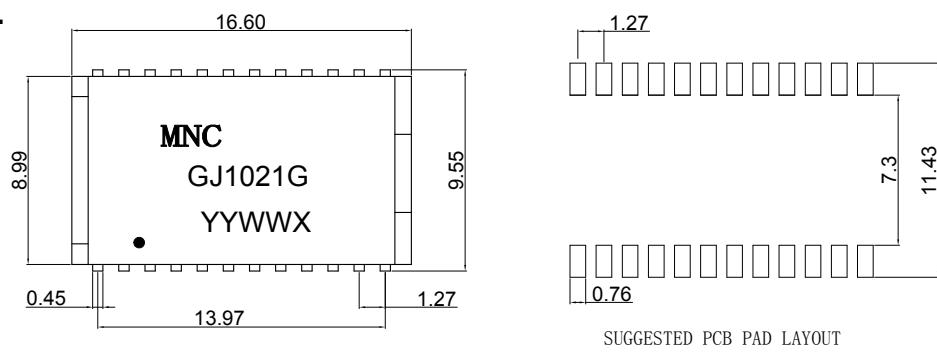
- Meets IEEE 802.3 Standards.
- RoHS Compliant.
- Storage temperature range: -40°C to +105°C.
- Operating temperature range: -40°C to +105°C.
- AEC-Q200 Qualified.



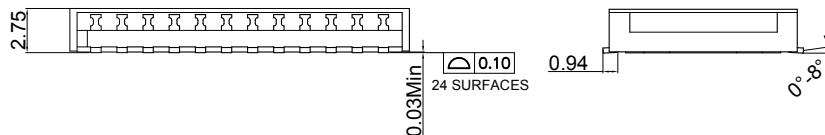
### Electrical Specifications @25°C

Part Number	OCL(uH Min) 100KHz,0.1V With 8mA DC Bias		Turns Ratio (±2%)	Insertion Loss (dB Max)		Return Loss (dB Min)			Cross talk (dB Min)		CMRR (dB Min)	DCR (Ω Max)	HI-POT (Vrms)
	25°C	-40°C and +85°C		100KHz	1-125MHz	0.1-40MHz	40-100MHz	1MHz	10-100MHz	2MHz	30-200MHz	1/2 Winding	60s
GJ1021G	360	300	1CT:1CT	-1.2	-0.2-0.002*f <sup>1.4</sup>	-16	-10+20log(f/80)	-50	-55+22*log(f/10)	-42	-15+20log(f/200)	0.65	1500

### MECHANICAL

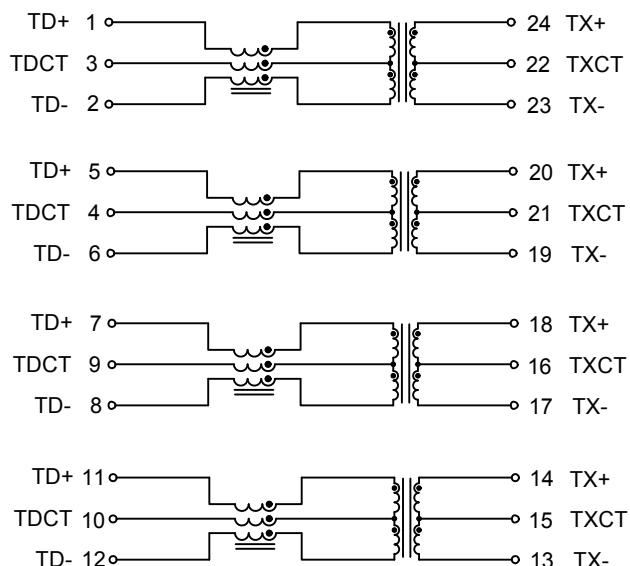


SUGGESTED PCB PAD LAYOUT



Unless otherwise specified all tolerances are: ±0.25 in mm

### SCHEMATICS



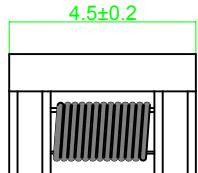
- AEC-Q200 qualified
- Impedance range from 700 ohms to 15000 ohms
- Inductance range from 11 uH to 200uH
- Controller area network (CAN)
- Ethernet architectures
- Operating temperature : -40°C to +125°C.
- Storage temperature : -40°C to +125°C.



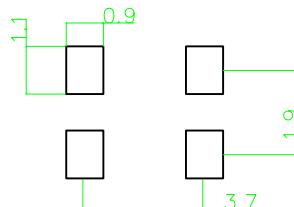
### Electrical Specifications @25°C

Part Number	COMMON MODE Impedance (Ω@10M±25%)	COMMON MODE Inductance	DC Resistance	Rated Current	Rated Volt	IR
		uh +50%/-30%	Ω max	mA max	Vdc max	Ω min
CM4532-110-A	700	11	0.6	250	50	10M
CM4532-220-A	1000	22	1.0	200	50	10M
CM4532-510-A	2000	51	1.2	200	50	10M
CM4532-101-A	5000	100	3.2	150	50	10M
CM4532-201-A	15000	200	4.5	100	50	10M

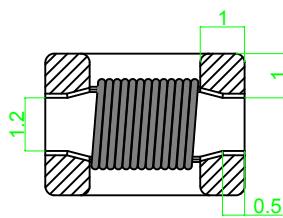
### MECHANICAL



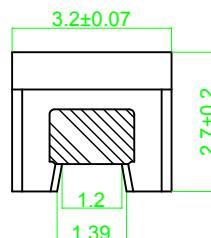
FRONT VIEW



SUGGESTED PAD LAYOUT



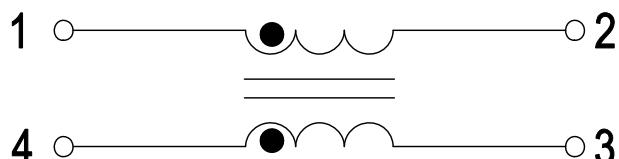
BOTTOM VIEW

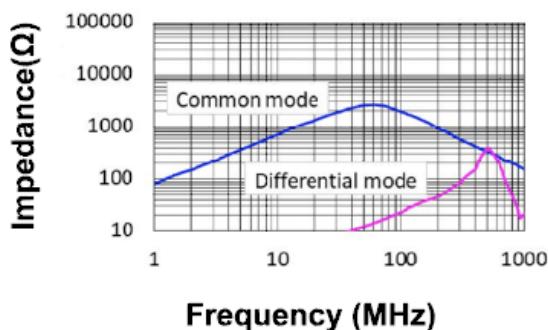
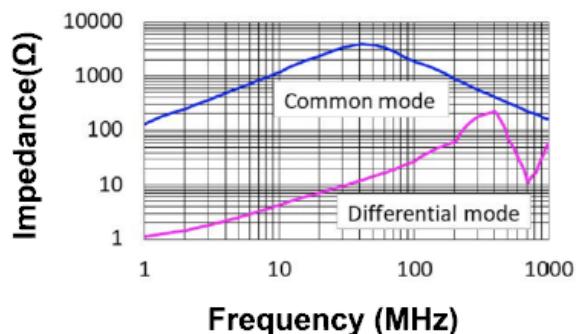
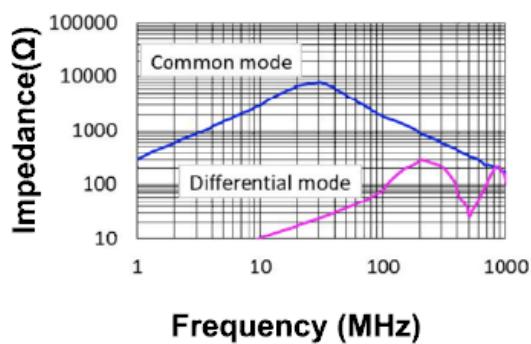
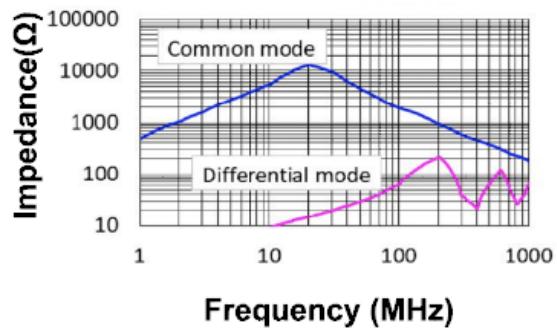
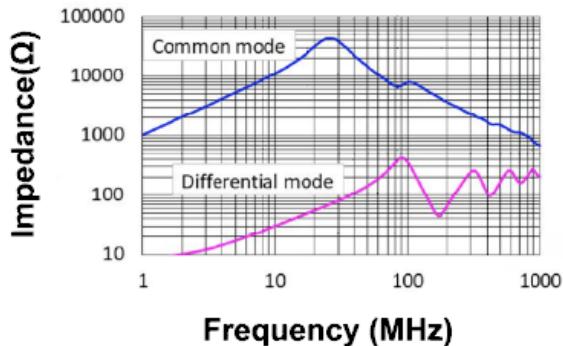


SIDE VIEW

Unless otherwise specified all tolerances are:±0.25 in mm

### SCHEMATICS



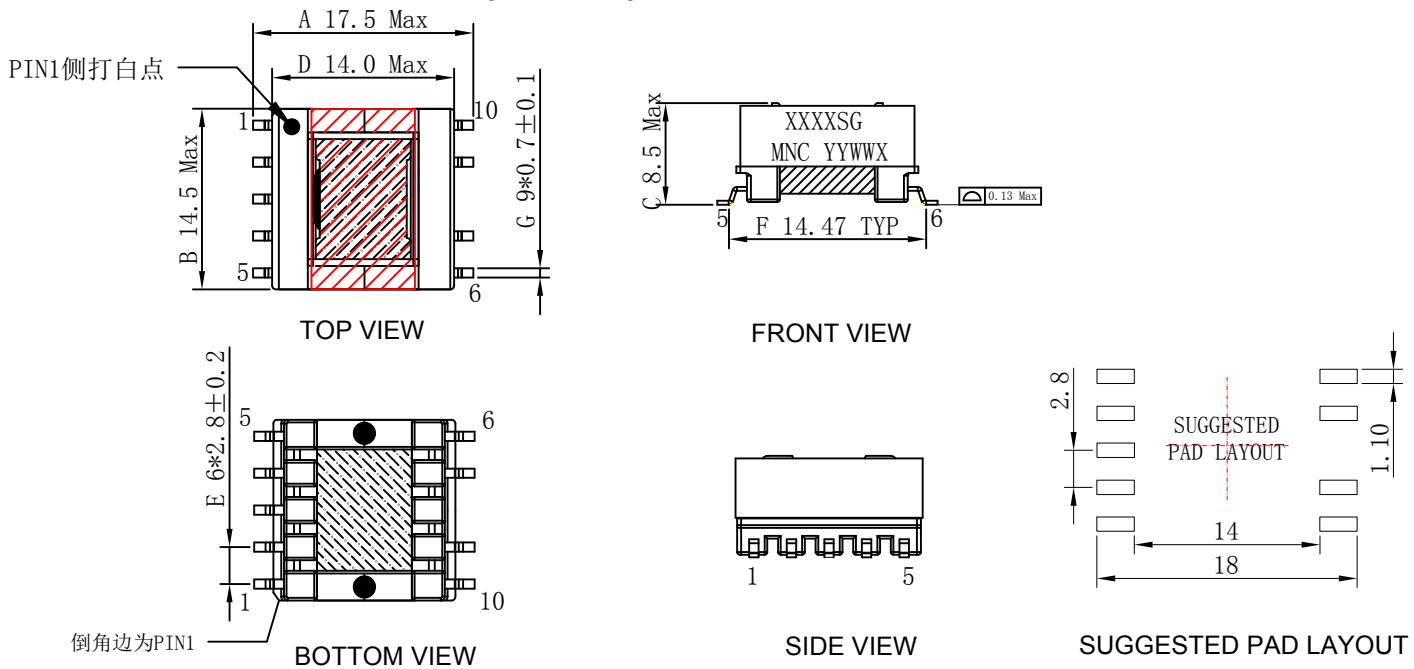
**Impedance Frequency****CM4532-110-A****CM4532-220-A****CM4532-510-A****CM4532-101-A****CM4532-201-A**

- AEC-Q200 qualified.
- IEC62368-1 Compliancy.
- RoHS Compatible.
- Storage temperature range : -40°C to +125°C.
- Operate temperature range: -40°C to +125°C



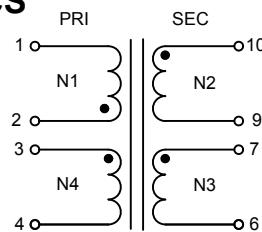
Part Number	TR( $\pm 3\%$ )@20KHz,0.1V	OCL(uH) @100KHz,0.1V	LK (uH max)	DCR(mΩ)				HI-POT(1mA/60S,AC)		
	N1:N2:N3:N4			N1	N2	N3	N4	Pri-Sec	wdg-core	N3-N4
TTAEFD14-1411SG	1:1:0.6818:0.6818	300 Min	6	300Max	300Max	250Max	280Max	2.7kV	1.5kV	2.5kV
TTAEFD14-1673SG	1:2.333:2.333:0.5556	13±12.5%	0.2	100Max	288Max	356Max	100Max	2.5kV	1.5kV	2.5kV
TTAEFD14-1779SG	1:3:3:1.667	15±10%	0.2	56±14	650±130	650±130	425±85	2.5kV	1.5kV	2.0kV
TTAEFD14-1780SG	1:3:3:1.667	10±12.5%	0.2	72Max	658Max	941Max	276Max	2.7kV	1.0kV	2.5kV
TTAEFD14-2128SG	1:3.75:3.75:1.75	7±12.5%	0.2	55±11	650±130	800±160	215±43	2.7kV	1.5kV	2.5kV
TTAEFD14-2213SG	1:3:3:1.667	15±12.5%	0.2	72Max	780Max	780Max	510Max	2.7kV	1.2kV	2.0kV

### MECHANICAL DIMENSIONS(Unit:mm)

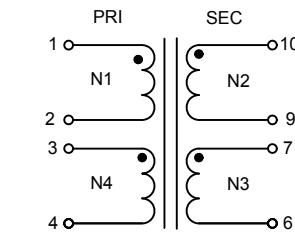


Unless otherwise specified all tolerances are: $\pm 0.30\text{mm}$ .

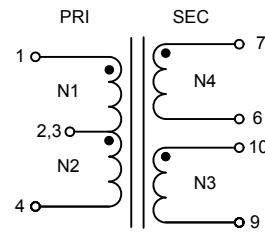
### SCHEMATICS



TTAEFD14-1779SG  
TTAEFD14-1673SG  
TTAEFD14-2213SG



TTAEFD14-1780SG  
TTAEFD14-2128SG



TTAEFD14-1411SG

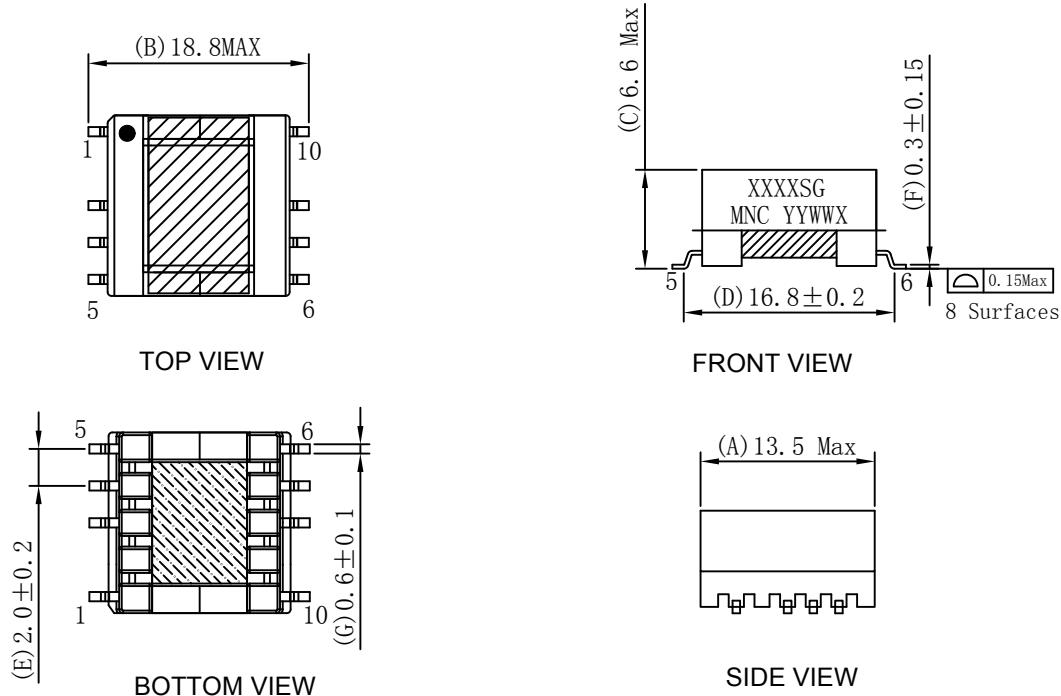
● Start Point

- AEC-Q200 qualified.
- IEC62368-1 Compliancy.
- RoHS Compatible.
- Storage temperature range : -40°C to +125°C.
- Operate temperature range: -40°C to +125°C



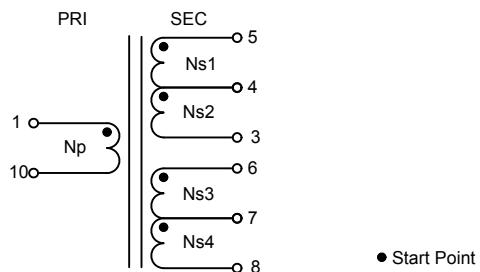
Electrical Specifications @25°C							
Part Number	TR( $\pm 3\%$ )@100KHz,0.1V	OCL(uH min) @100KHz,0.1V	LK (uH max)	DCR(mΩ max)			HI-POT PRI-SEC
	NP: NS1: NS2: NS3: NS4			1-10	5-3	6-8	
TTAEFD14-1857SG	17:18:5:18:5	150	0.4	370	880	780	2000Vac/1mA/1S
TTAEPC13-2085SG	17:18:3:18:3	150	0.4	370	880	780	2000Vac/1mA/1S
TTAEPC13-2136SG	13:18:5:18:5	100	0.3	170±60	640±160	580±140	2000Vac/1mA/1S
TTAEPC13-2058SG	12:22:6:22:6	100	0.4	370	880	780	2000Vac/1mA/1S
TTAEPC13-2074SG	17:20:9:20:9	150	0.4	370	880	780	2000Vac/1mA/1S
TTAEPC13-2183SG	13:16:5:16:5	100	0.4	360	880	780	2000Vac/1mA/1S

### MECHANICAL DIMENSIONS(Unit:mm)



Unless otherwise specified all tolerances are:  $\pm 0.30\text{mm}$ .

### SCHEMATICS

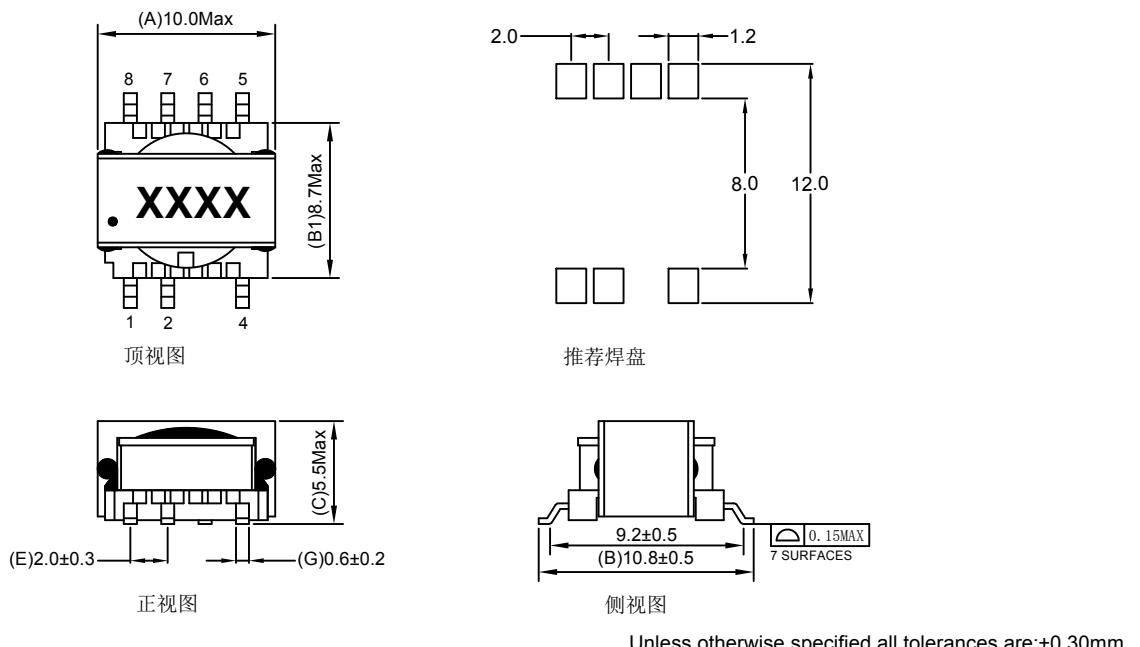


- AEC-Q200 qualified.
- IEC62368-1 Compliancy.
- RoHS Compatible.
- Storage temperature range : -40°C to +125°C.
- Operate temperature range: -40°C to +125°C

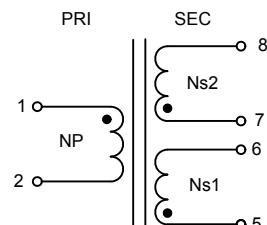


Electrical Specifications @25°C										
Part Number	TR(±3%) @100KHz,0.1V	OCL(uH)	LK	DCR(mΩ)			HI-POT(1mA/2S,AC)			INTERTURN VOLTAGE
	NP:Ns1:Ns2	@100KHz,0.1V	(uH max)	NP	Ns1	Ns2	Pri-Sec	wdg-core	Ns1-Ns2	1.0KV,5 pulses
TTAER09-2079SG	17:19:5	230 Min	2	275±15%	380±20%	115±20%	1.2kV	1.2kV	1.2kV	/
TTAER09-2114SG	17:12:5	230 Min	2	340Max	330Max	135Max	1.5kV	1.2kV	1.2kV	/
TTAER09-2368SG	17:26	230 Min	2	340Max	800Max	/	1.5kV	1.2kV	/	Area≤10%
TTAER09-2369SG	17:19	230 Min	2	340Max	440Max	/	1.5kV	1.2kV	/	Area≤10%

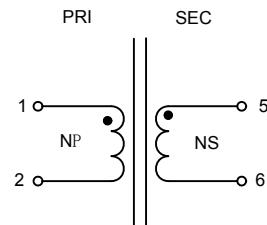
### MECHANICAL DIMENSIONS(Unit:mm)



### SCHEMATICS



TTAER09-2079SG  
TTAER09-2114SG



TTAER09-2368SG  
TTAER09-2369SG

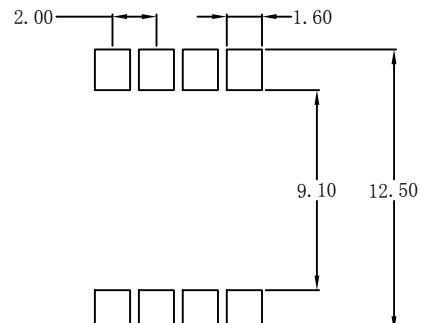
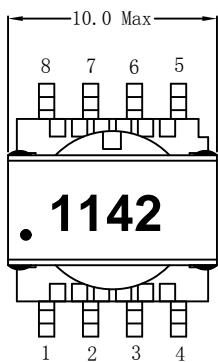
● Start Point

- RoHS Compliant
- IEC62368 Compliancy
- AEC-Q200 +125°C(Grade1) qualified
- Storage temperature range : -40°C to +125°C
- Operate temperature range: -40°C to +125°C(including self-temperature rise)

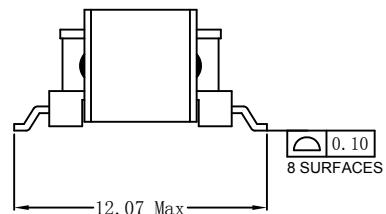
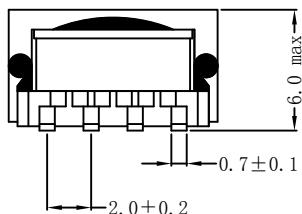


Electrical Specifications @25°C							
Part Number	Turns Ratio (±3%)	OCL(uH) @500KHz,0.5V	LK(uH MAX) @500KHz,0.5V	DCR (mΩ max)			
	4-3:2-1:8-7:6-5	4-3=2-1	Pri (Short other pins)	4-3	2-1	8-7	6-5
TTER09-1142SG	8:8:12:12	45.6 min	1.0	130	130	260	260

### MECHANICAL DIMENSIONS(Unit:mm)

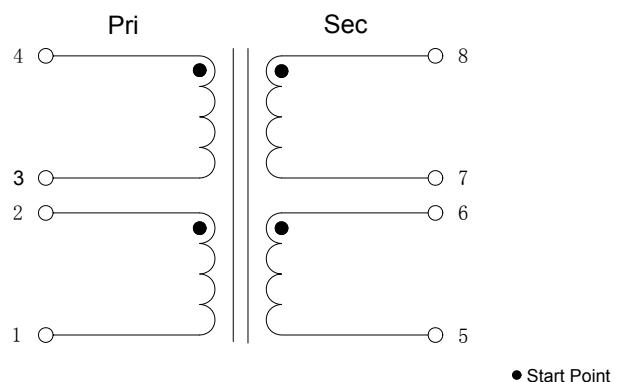


SUGGESTED PAD LAYOUT



Units is mm  
Unless otherwise specified all tolerances are:Typical

### SCHEMATICS

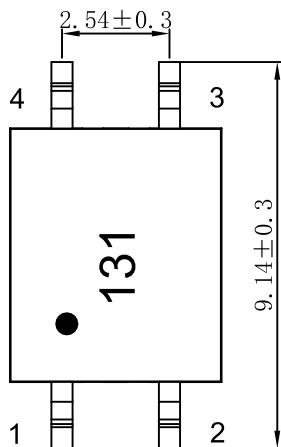
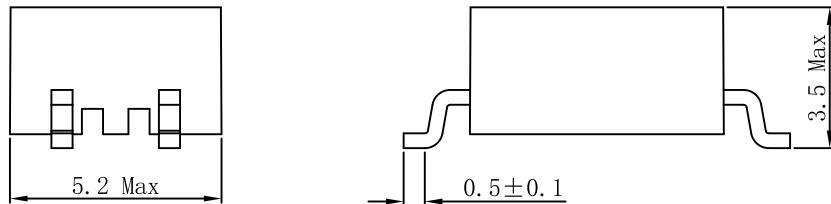


- CMC Choke.
- IEC62368-1 Compliancy.
- RoHs Compliance.
- Operate temperature range: -40°C to +125°C
- Storage temperature range: -40°C to +125°C
- AEC-Q200 to be qualified.



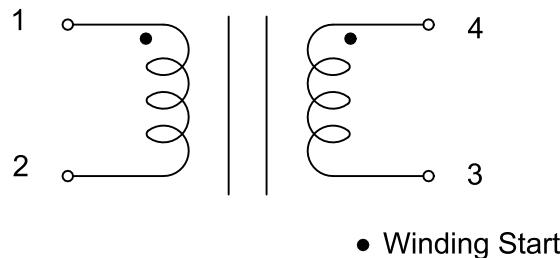
Electrical Specifications @ 25°C				
Part Number	OCL(μH Min) 100KHz,10mV	OCL(μH Nom) 100KHz,10mV -40°C	DCR(mΩ Max)	Hi-Pot Pin1-4
	1-2,4-3	1-2,4-3	1-2,4-3	0.5mA,3s
CMA0402SG131U	125	120	250	AC 3750V

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



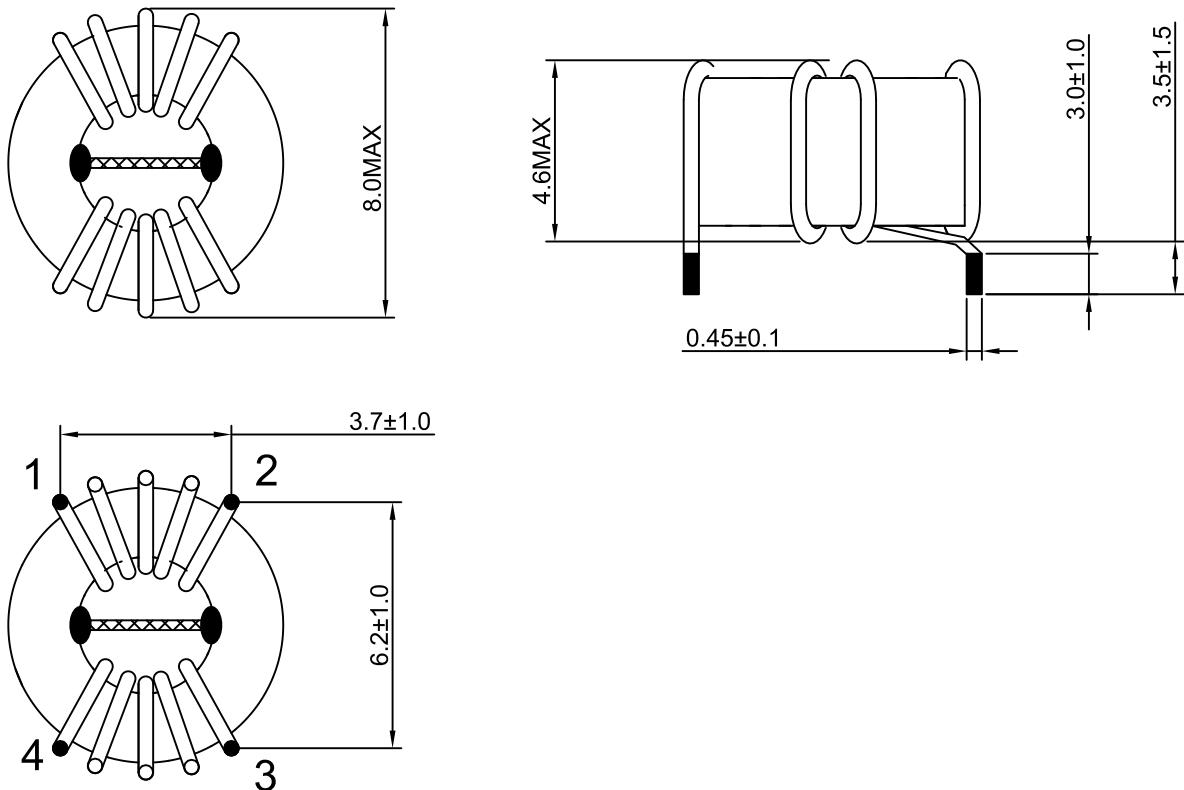
- Common mode chokes for AC Power Lines
- Toroidal construction
- Storage temperature range : -40°C to +125°C.
- Operate temperature range: -40°C to +125°C (including self-temperature rise)



### Electrical Specifications @25°C

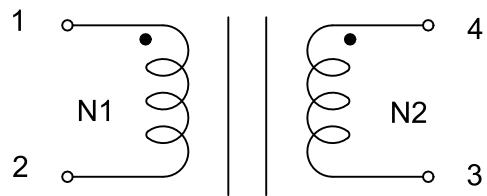
Part Number	OCL ( $\mu$ H Min) @1KHz, 0.3V	DCR (mΩ MAX)	Turns Ratio @20KHz, 1.0V	Hi-Pot (1mA, 3S)
	1-2, 4-3	1-2, 4-3	N1:N2	N1:N2
CMA0603-561U	560	15.0	6:6±2%	500VAC

## MECHANICAL

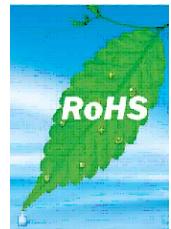


Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

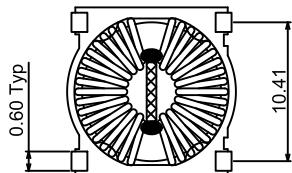
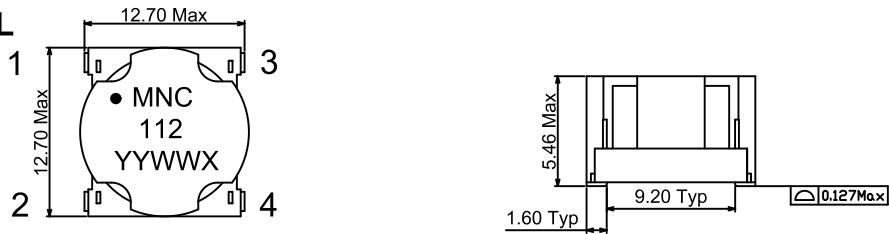


- RoHS Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- Storage Temperature Range: -40°C TO 125°C.
- AEC-Q200 to be Qualified.



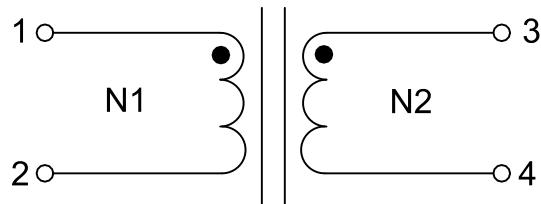
Electrical Specifications @ 25°C							
Part Number	Turns Ratio @10KHz,1V	OCL(mH) @100KHz,0.1V		DCR (mΩ Max)		HI-POT @50Hz,1mA,1s	Current (A Max)
	1-2 : 3-4	1-2	3-4	1-2	3-4		
CMA0903SG112N	1 : 1±5%	1.17±35%	1.17±35%	200	200	1000VAC	1.22

### MECHANICAL

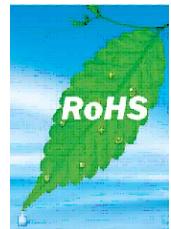


Unless otherwise specified all tolerances are:±0.25 in mm

### SCHEMATICS

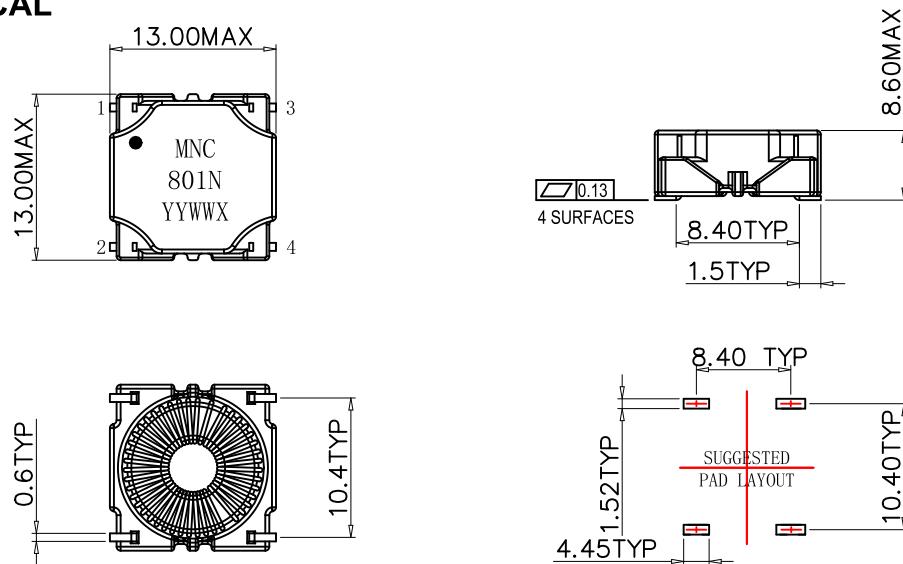


- RoHS Compliance.
- Operating Temperature Range: -40°C TO 125°C.
- Storage Temperature Range: -40°C TO 125°C.
- AEC-Q200 to be Qualified.



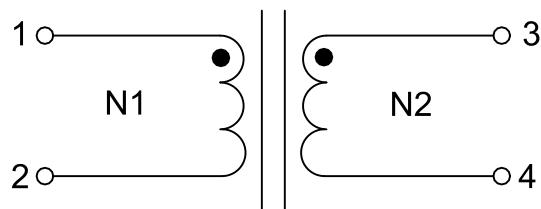
Electrical Specifications @ 25°C					
Part Number	OCL(uH) @100KHz,0.1V	DCR (mΩ Max)	LK(uH Min) @100KHz,0.1V	SRF (MHz TYP)	Impedance at SRF (Ω TYP)
CMA953SG801N	800±35%	27	1.5	20	1300

### MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

### SCHEMATICS

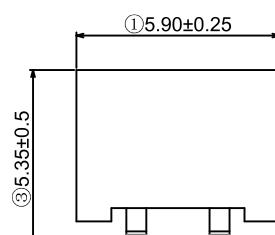
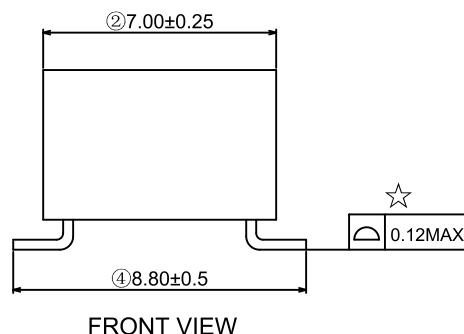


- RoHS Compliant.
  - AEC-Q200 +125°C(Grade1) to be qualified
  - Operating temperature range : -40°C to +125°C.
  - Storage temperature range(Including self temperature rise) : -40°C to +125°C.

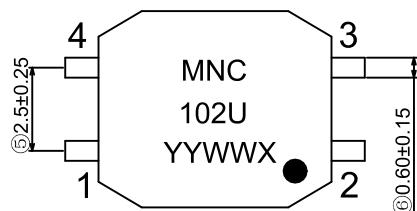


Electrical Specifications @25°C				
Part Number	Rated Inductance (mH) @100KHz, 0.1mA	Stray Inductance (nH) @100KHz, 5mA	DCR ( $\mu\Omega$ )	RATED CURRENT (mA)
CMBA422SG102U	1.0+50%/-30%	70 typ	140 typ	700

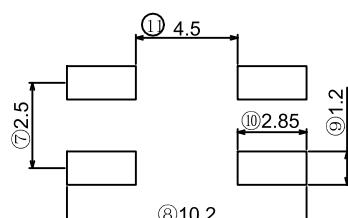
## **MECHANICAL**



SIDE VIEW



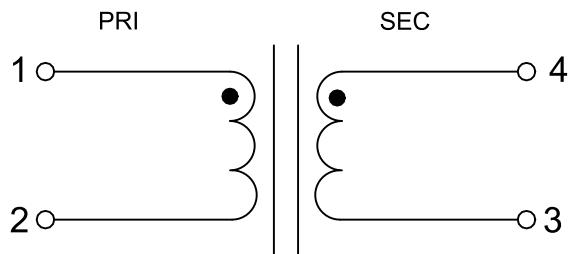
## VERTICAL VIEW



## SUGGESTED PAD LAYOUT

Unless otherwise specified all tolerances are:  $\pm 0.25$  in mm

## **SCHEMATICS**

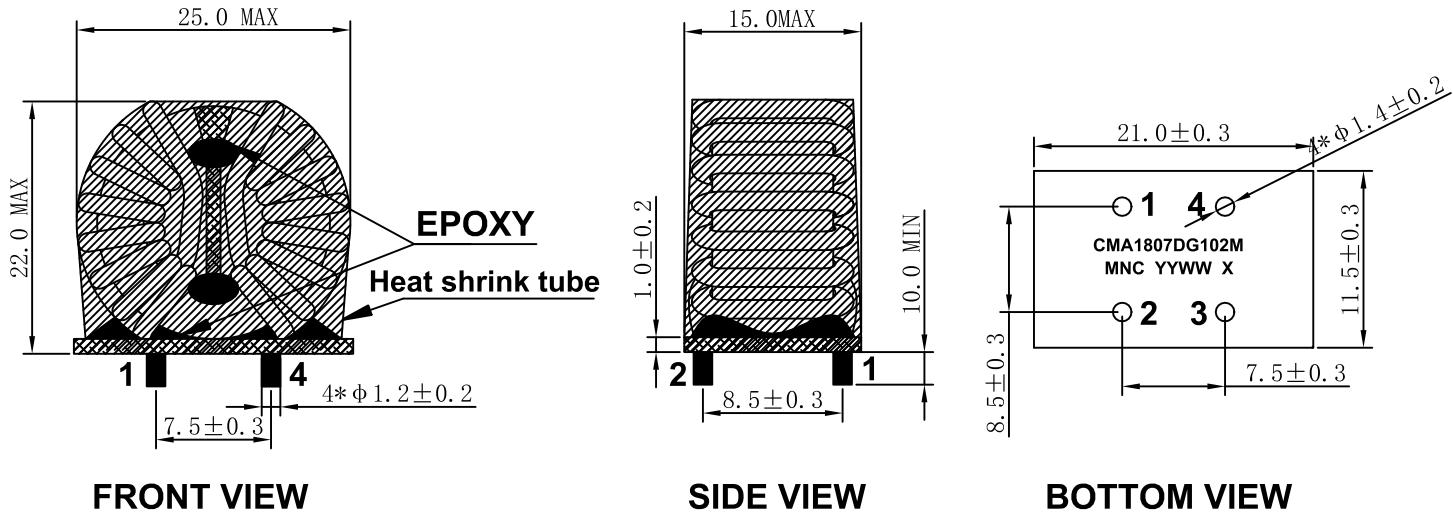


- High impedance to minimize common mode noise.
- AEC-Q200 in progress.
- Termination finished: Sn99.3-0.7Cu.
- Operating Temperature Range: -40°C TO 125°C(including coil soft temperature rise)
- Storage temperature range: -40°C TO 125°C
- Welding Temperature: 260° C

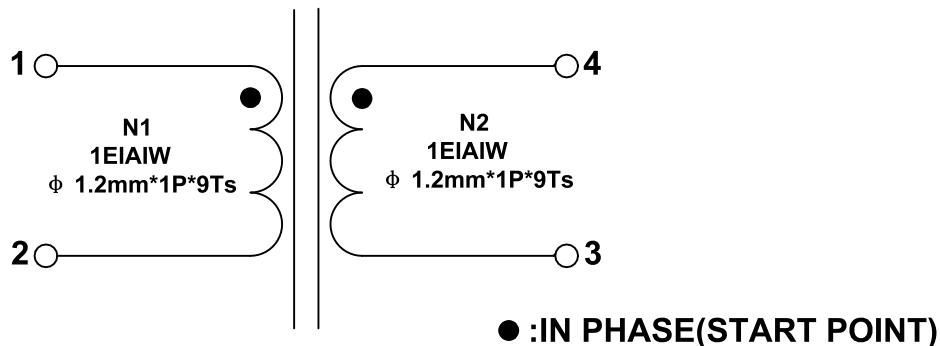


Electrical Specifications @ 25°C								
Part Number	OCL(uH) @1.0KHz,0.3V	Rate Current (A Max)	Turns(TS)	DCR mΩ max		HI-POT (VAC,60HZ,3S,1mA)		
CMA1807DG102M	N1(1-2)=N2(4-3) 800uH MIN	15	N1(1-2)=N2(4-3) 9.0(ref)	1-2 6.0	4-3 6.0	1,2-4,3 1500	1,2-Core 600	4,3-Core 600

## MECHANICAL



## SCHEMATICS

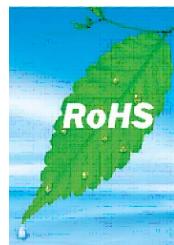


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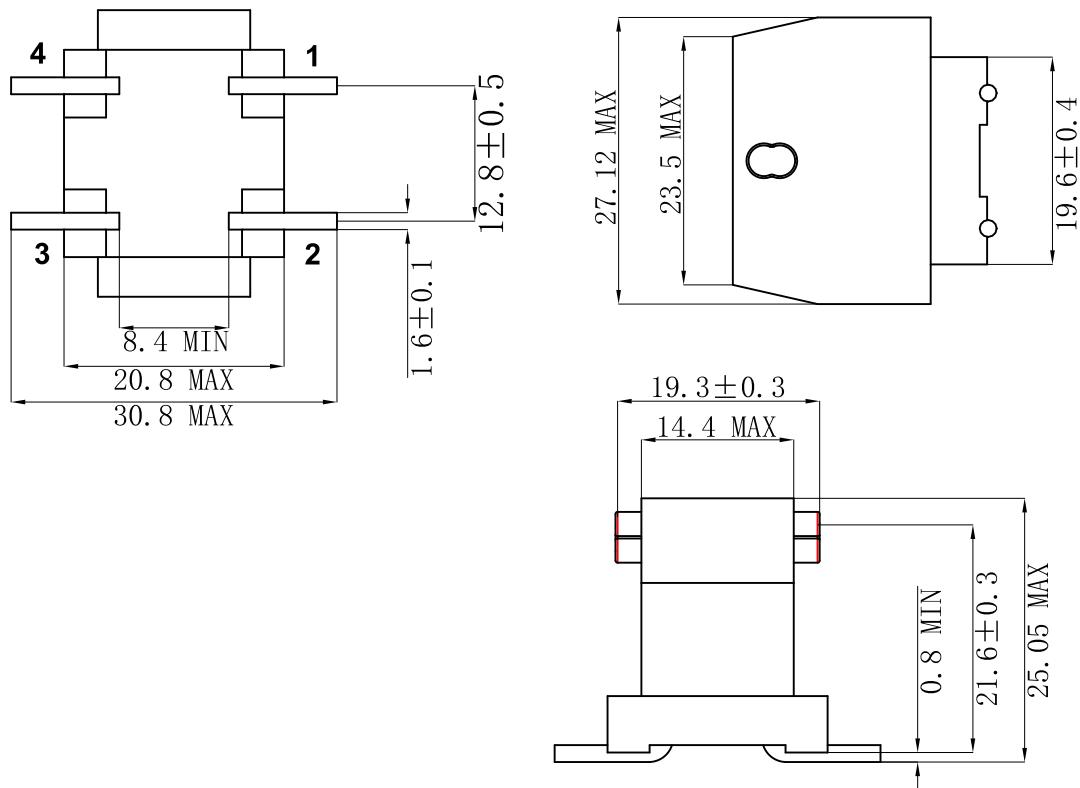
Unless otherwise specified all tolerances are:±0.25 in mm

- IEC62368-1 Compliancy.
- RoHs Compliance.
- Operate temperature range: -40°C to +125°C
- Storage temperature range: -40°C to +125°C
- AEC-Q200 to be qualified.

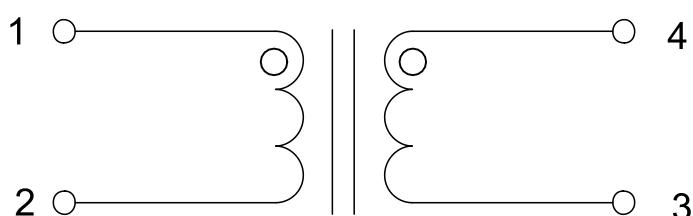


Electrical Specifications @ 25°C			
Part Number	OCL(μH Min) 1KHz,1V	DCR (mΩ Max)	Hi-Pot (2mA,2s)
	1-2,4-3	1-2,4-3	Coil to Coil
CMBA1407SG300U	30	9	AC 2400V

## MECHANICAL



## SCHEMATICS

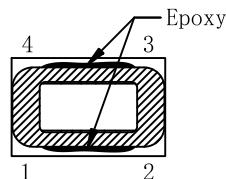


- RoHS Compliant.
- Termination finished: TIN.
- Operating Temperature Range: -40°C TO 125°C(including coil soft temperature rise)
- Storage temperature range: -40°C TO 125°C

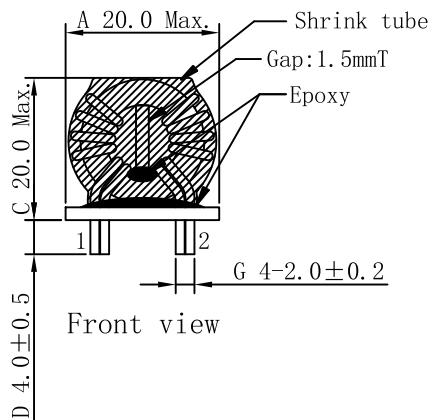


Electrical Specifications @ 25°C						
Part Number	L(uH)		Lk(uH)	Turns Ratio	DCR(mΩ)	HI-POT
	@1kHz/1V	@1kHz/1V	@20kHz/1.0V	@20°C	AC1.2kV/50Hz/1mA/60S	500V/60S
CMBA1409DG400N	1-4 39.7+50%/-30% (41.5Typ.)	2-3 (2 and 3 are shorted)	1-4 0.25 Min.	N1:N2 1:1	1-4 1.2 Max. (0.85Typ.)	N1-N2 No breakdown, no arc
						1000MΩ Min.

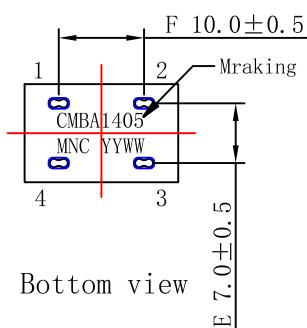
## MECHANICAL



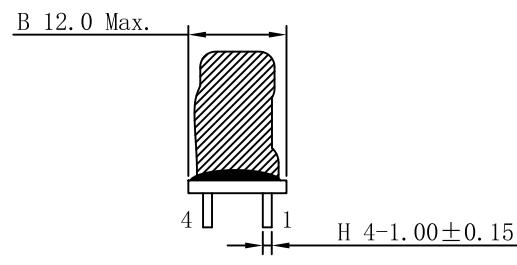
Top view



Front view



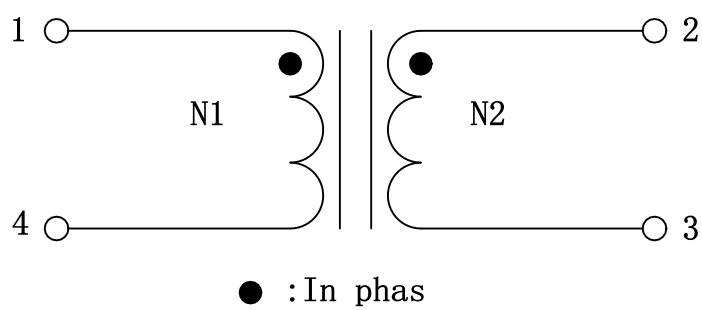
Bottom view



Side view

Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



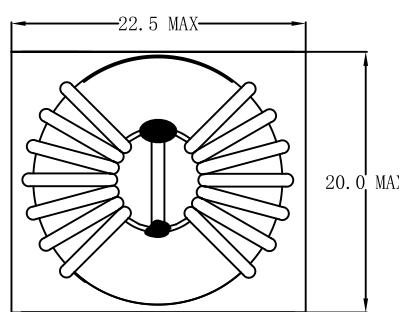
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



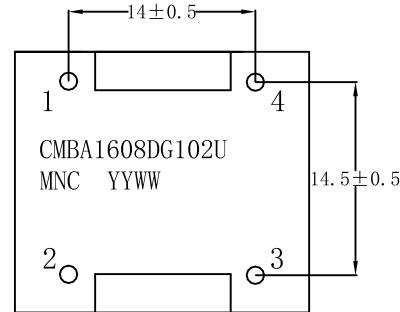
### Electrical Specifications @25°C

Part Number	OCL @10KHz, 0.3V	DCR (mΩ MAX)	Turns Ratio	Hi-Pot 1mA/3S	Z (0.3V)						
	1-4=2-3	1-2=4-3	N1:N2	N1:N2	1-2=3-4						
CMBA1608DG102U	2.0+50%/-30%	4	7:7±0.4	2.6KVAC	1KHz 12Ω MIN	2KHz 24Ω MIN	5KHz 48Ω MIN	10KHz 88Ω MIN	20KHz 148Ω MIN	50KHz 244Ω MIN	100KHz 305Ω MIN

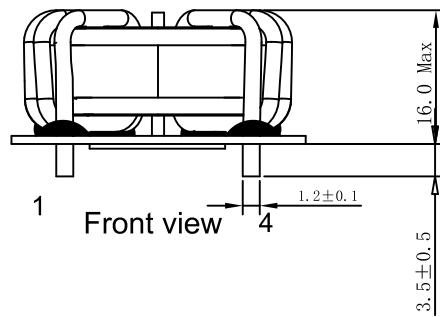
### MECHANICAL



Top view

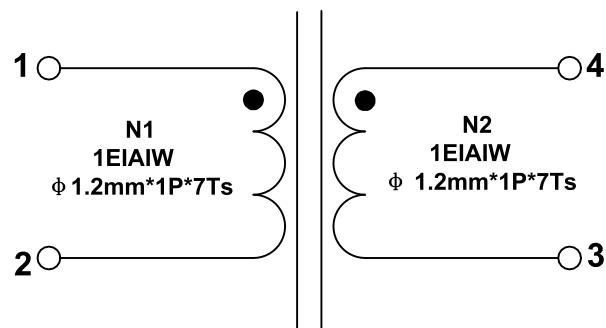


Bottom view



Unless otherwise specified all tolerances are:±0.25 in mm

### SCHEMATICS

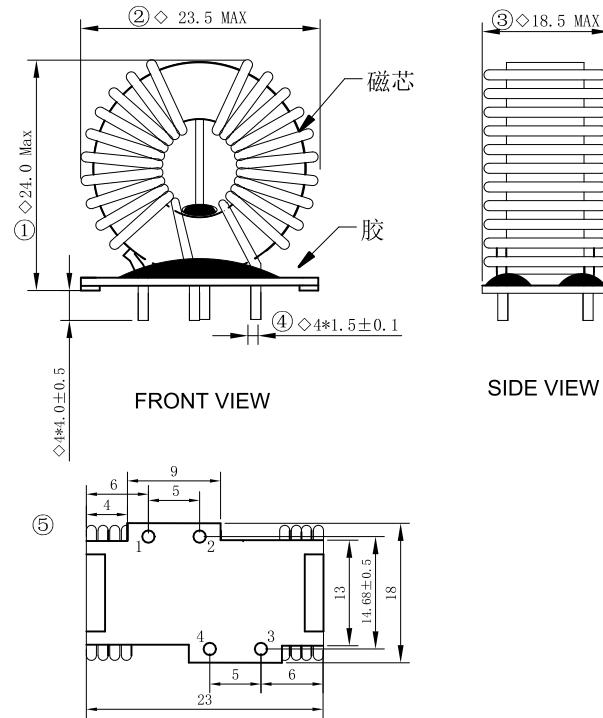


- RoHS Compliant.
  - IEC60950 Compatible.
  - AEC-Q200 +125°C(Grade1) to be qualified
  - Operating temperature range : -40°C to +125°C.
  - Storage temperature range(Including self temperature rise) : -40°C to +125°C.



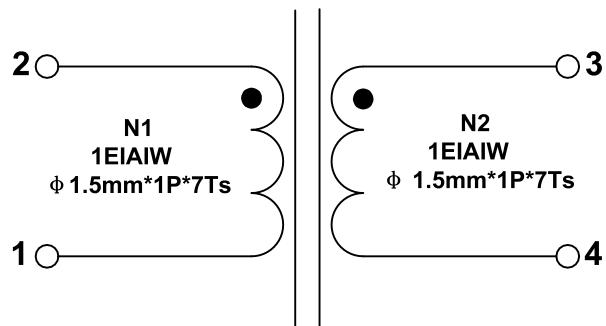
Electrical Specifications @25°C					
Part Number	OCL @10KHz, 0.25V	DCR (mΩ MAX)	Turns Ratio	Irms (A MAX)	HI-POT
	1-2=3-4	1-2=4-3	N1:N2		WINDING-WINDING
CMBA1712DG102U	1mH MIN (1.5mH ±30%TYP)	4	2*7TS	16	2000VAC 0.5mA 3S

## **MECHANICAL**



Unless otherwise specified all tolerances are:  $\pm 0.25$  in mm

# SCHEMATICS

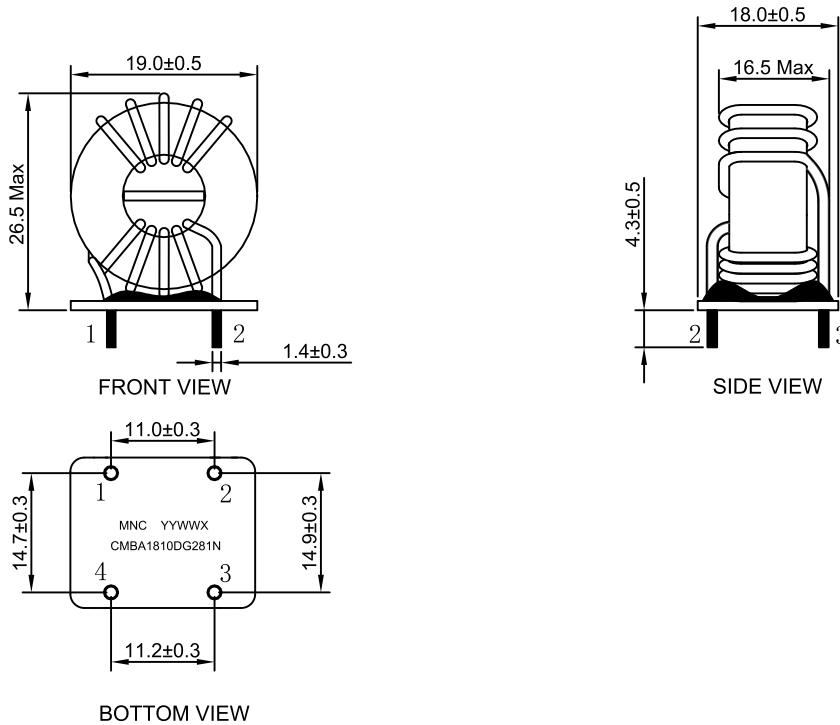


- AEC-Q200 qualified
- Controller area network (CAN)
- Ethernet architectures
- Operating temperature range : -40°C to +125°C.
- Storage temperature range (Including self temperature rise) : -40°C to +125°C.



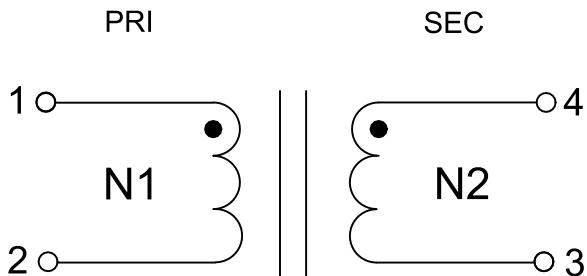
Part Number	Electrical Specifications @ 25°C				
	Turns Ratio (±0.5%)	OCL(uH) @1KHz,0.25V	DCR (mΩ MAX)	ACR (Ω MAX) @1KHz,0.25V	HI-POT @3S,5mA,50Hz
CMBA1810DG281N	1:2.4:3	1-2,4-3	1-2,4-3	1-2,4-3	Winding-Core 2500VAC
	5:5	280+30%/-20%	10.0	4.0	

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



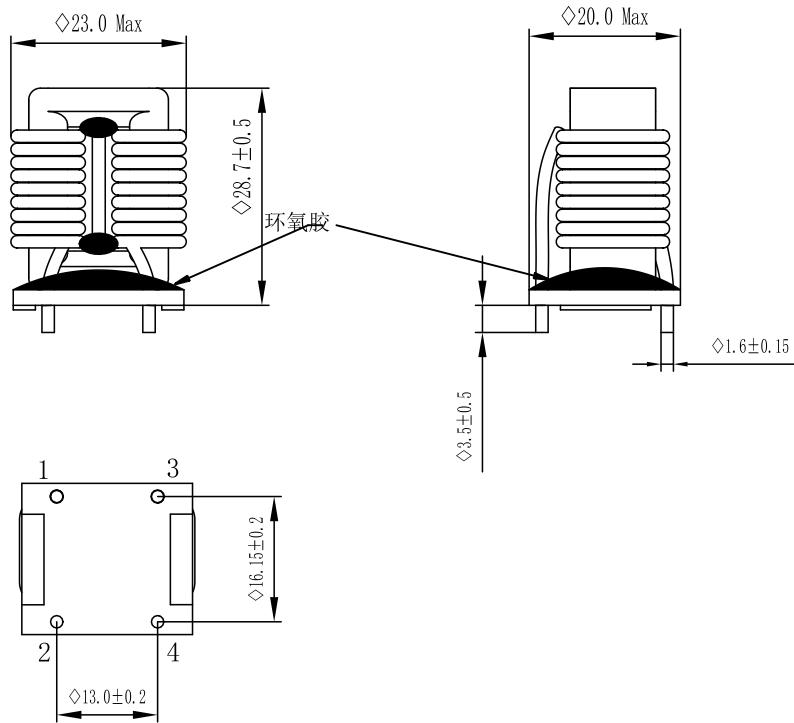
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



### Electrical Specifications @25°C

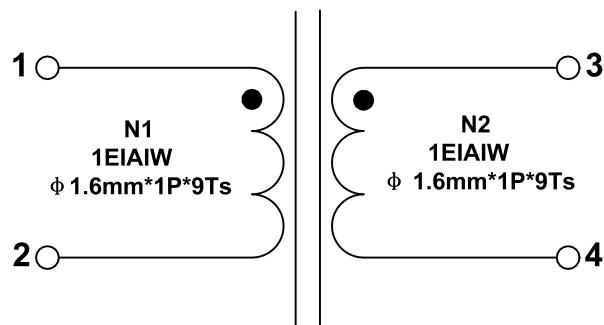
Part Number	OCL (mH) @10KHz, 0.1V	DCR (mΩ MAX)	Turns Ratio (20KHz, 1V)	HI-POT	Z (0. 1V)	IR	
	1-2=3-4	1-2=4-3	N1:N2	N1:N2	1-2=3-4	COIL-COIL	
CMBA1811DG551V	0.55±25%	4.2	9:9±0.3	2.0KVAC 1mA 60S OR 2.4KVAC 1mA 3S	100KHz 250Ω MIN	1MHz 1.5KΩ MIN	1.0KVDC 60S ≥100MΩ

### MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

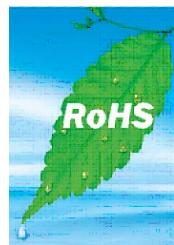
### SCHEMATICS



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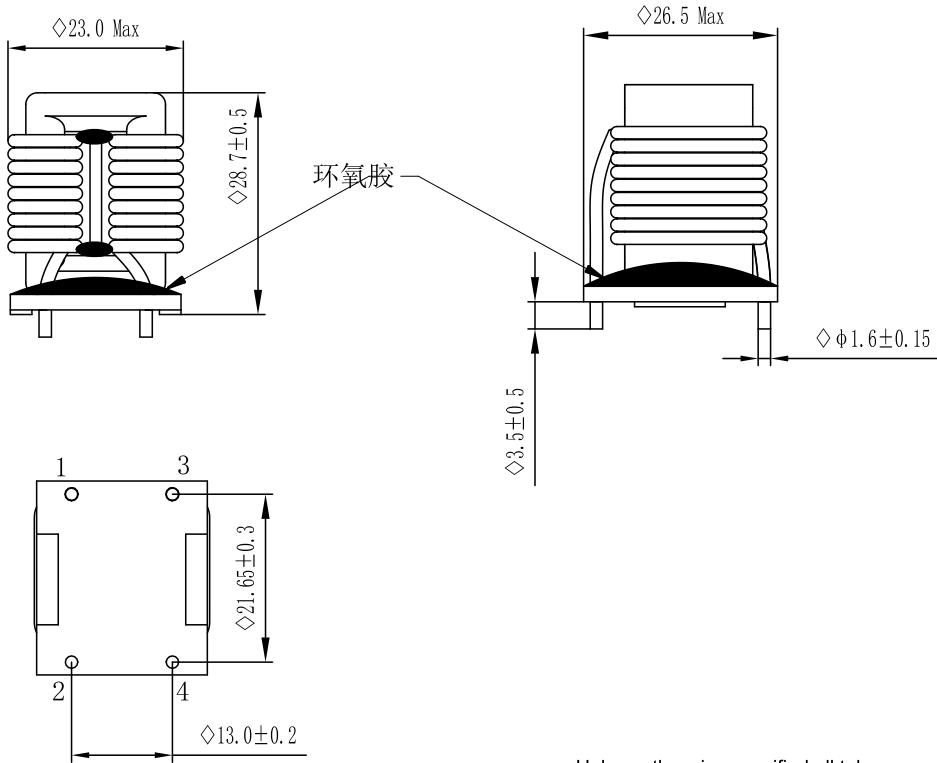
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



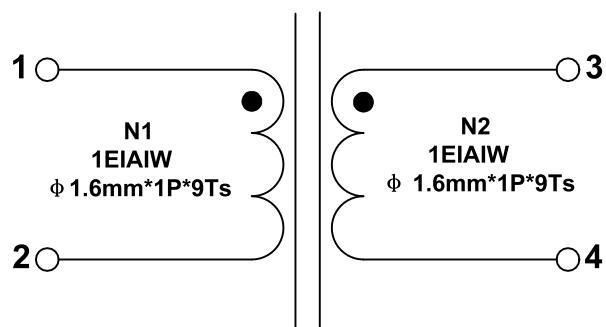
### Electrical Specifications @25°C

Part Number	OCL (mH) @10KHz, 0.1V	DCR (mΩ MAX)	Turns Ratio (20KHz, 1V)	HI-POT	Z (0.1V)	IR	
	1-2=3-4	1-2=4-3	N1:N2	N1:N2	1-2=3-4	COIL-COIL	
CMBA1817DG851V	0.85±25%	5	9:9±0.3	2.0KVAC 1mA 60S OR 2.4KVAC 1mA 3S	100KHz 350 Ω MIN	1MHz 2.5K Ω MIN	1.0KVDC 60S ≥100MΩ

### MECHANICAL



### SCHEMATICS



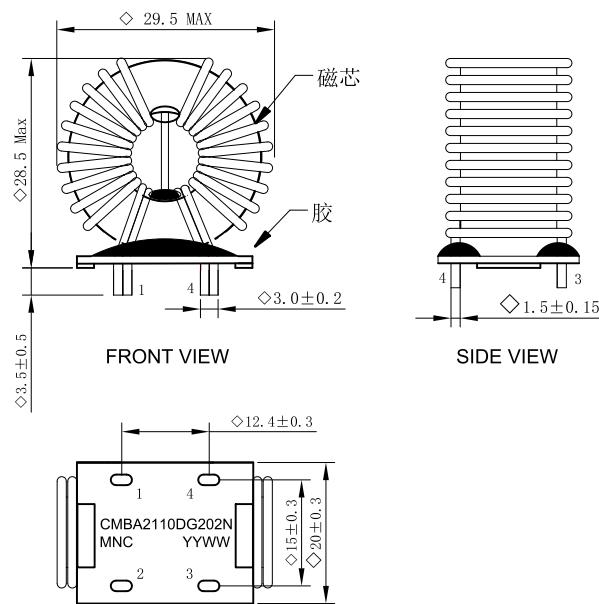
- RoHS Compliant.
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- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



### Electrical Specifications @25°C

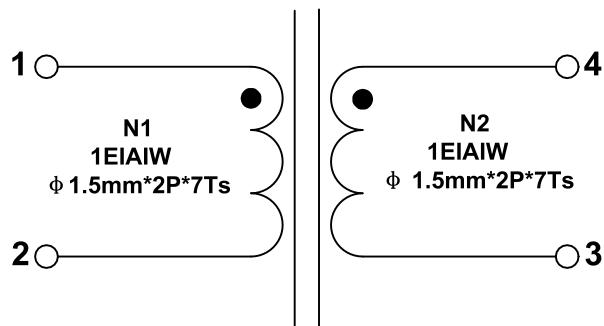
Part Number	Turns Ratio (20KHz, 1V)	OCL (mH) @10KHz, 0.1V	DCR (mΩ MAX)	HI-POT	Z (0.1V)	IR	
	N1:N2	1-2=3-4	1-2=4-3	N1:N2	1-2=3-4	N1:N2	
CMBA2110DG202N	7:7±0.4	2.0±30%	1.8	2.0KVAC 1mA 60S OR 2.4KVAC 1mA 3S	100KHz 350Ω MIN	1MHz 800Ω MIN	1.0KVDC 60S ≥100MΩ

### MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

### SCHEMATICS



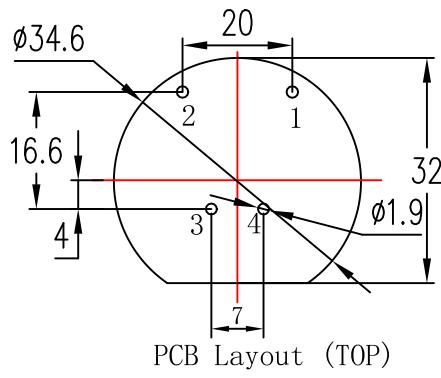
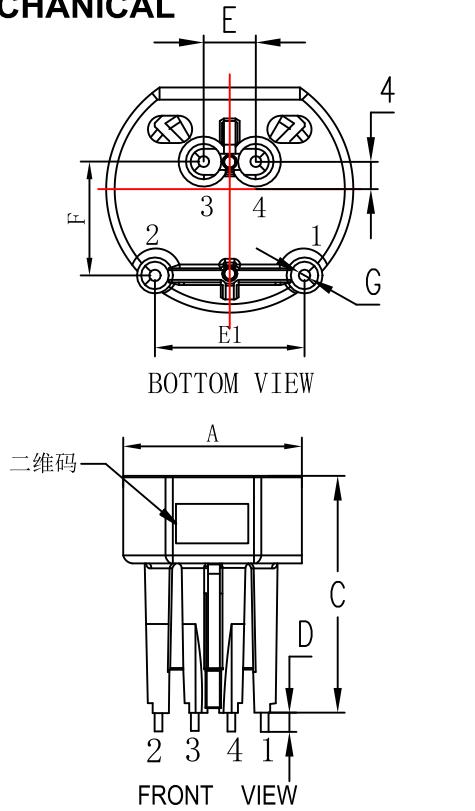
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



### Electrical Specifications @25°C

Part Number	Turns Ratio (20KHz, 1V)	OCL (mH MIN) @10KHz, 0.1V	OCL (mH) @100KHz, 1.0V	△OCL (μ H MAX) @100KHz, 1.0V	LK (μ H) @100KHz, 1.0V	DCR (mΩ MAX)	HI-POT	IR
	1-4:2-3	1-4=2-3	1-4=2-3	L1-4-L2-3	1-4 (short others)	1-4=2-3	coil-coil	coil-coil
CMBA2110DG242UB	10:10±3%	2.4	1.7+45%/-35%	110	3.4~5.2	6.5	1500VAC 1mA 60S	500VDC 5S ≥100MΩ

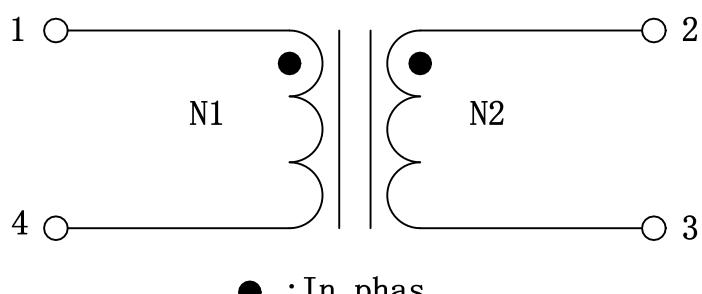
### MECHANICAL



尺寸: (mm)	
A	33.6±1.0
B	31.3±0.7
◇C	40.0±1.0
D	3.8±0.4
E	7.0±0.4
E1	20.0±0.4
F	16.6±0.4
G	Ø1.4±0.1

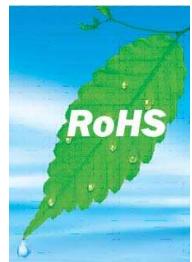
Unless otherwise specified all tolerances are: ±0.25 in mm

### SCHEMATICS



● : In phas

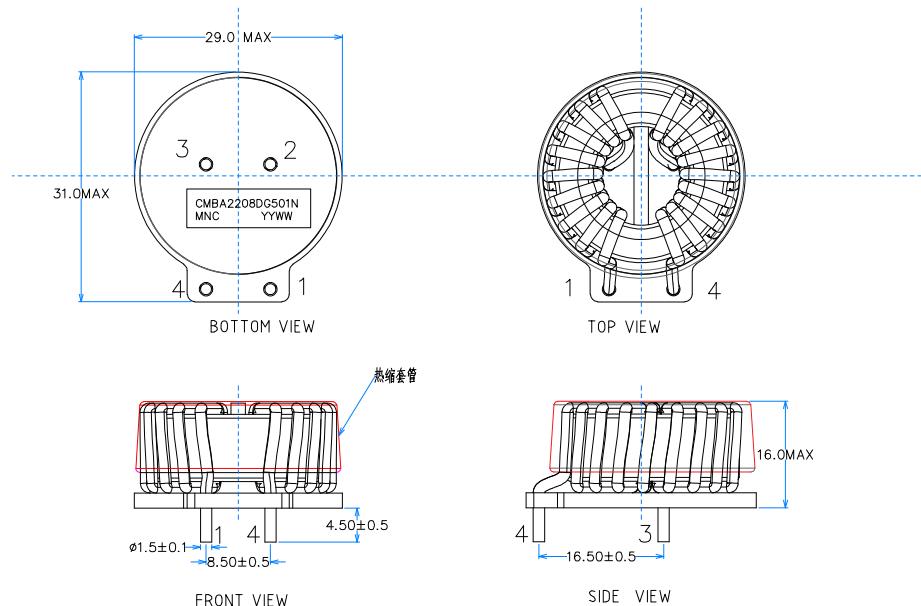
- RoHS Compliant (RoHS6).
- IEC62368-1 Compliant.
- Operating temperature range: -40°C to +125°C (including self-temperature rise)
- AEC-Q200 to be qualified.



#### Electrical Specifications @25°C

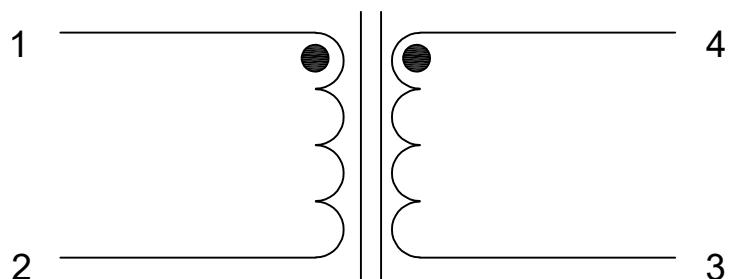
Part Number	Turns Ratio @20KHz,0.1V	OCL @100KHz,1V	Rated Current	DCR (mΩ Max)		HI-POT (VAC,1mA,60Sec)	
	1-2:4-3	1-2=4-3	1-2=4-3	1-2	4-3	(1-2) TO (4-3)	WINDING TO CORE
CMBA2208DG501N	1:1±5%	379uH -35+50%	16A	6	6	1000	1000

## MECHANICAL



Unless otherwise specified all tolerances are:  $\pm 0.25$  in mm

## SCHEMATICS



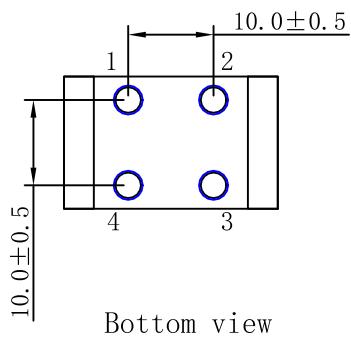
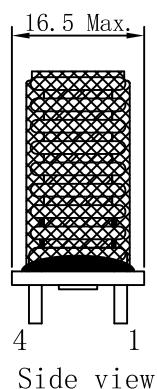
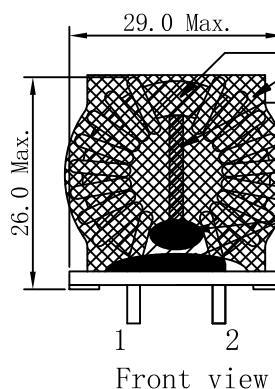
- RoHS Compliant.
- Termination finished: TIN.
- Operating Temperature Range: -40°C TO 125°C (including coil soft temperature rise)
- Storage temperature range: -40°C TO 125°C



#### Electrical Specifications @ 25°C

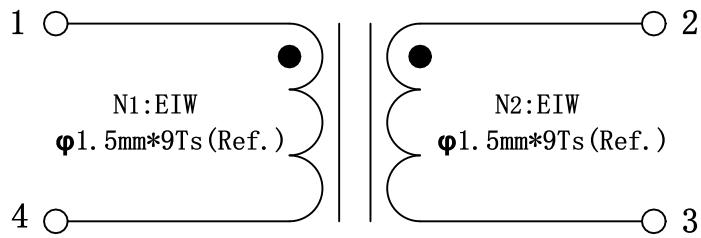
Part Number	L(uH)		Turns Ratio	DCR(mΩ)		HI-POT	IR
	@1kHz/1V	@20kHz/1.0V		@20°C		AC1.5kV/50Hz/1mA/60S	500V/60S
CMBA2208DG581N	1-4 583.2±35%	2-3 1:1	N1:N2 1:1	1-4 6.0 Max.	2-3 No breakdown, no arc	N1-N2 100MΩ Min.	N1-N2

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



● : In phase

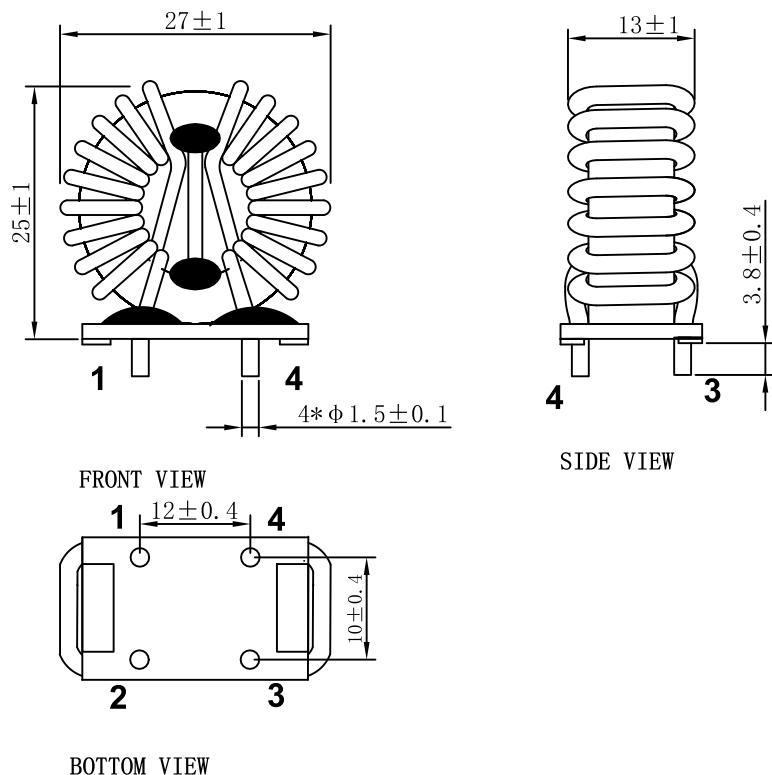
- RoHS Compliant.
- High impedance to minimize common mode noise.
- AEC-Q200 qualified .
- Operating temperature range (Including self temperature rise): -40°C to +125°C.
- Storage temperature range : -40°C to +125°C.



### Electrical Specifications @25°C

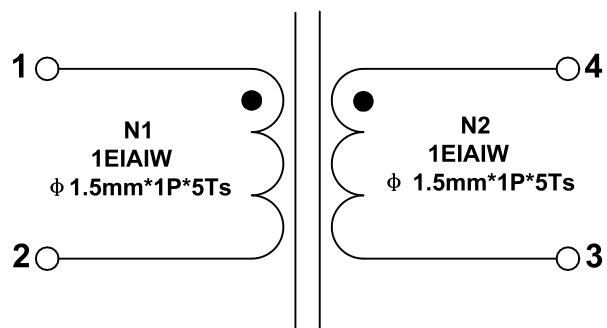
Part Number	Turns Ratio	Z(Ω MIN) 100MHz, 0.1V	DCR (mΩ MAX)	HI-POT
	1-2=3=4	1-2=3=4	1-2=3=4	WINDING-WINDING
CMBA2208DG701U	2*5TS	700	4.0	2000VAC 1mA 3S

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

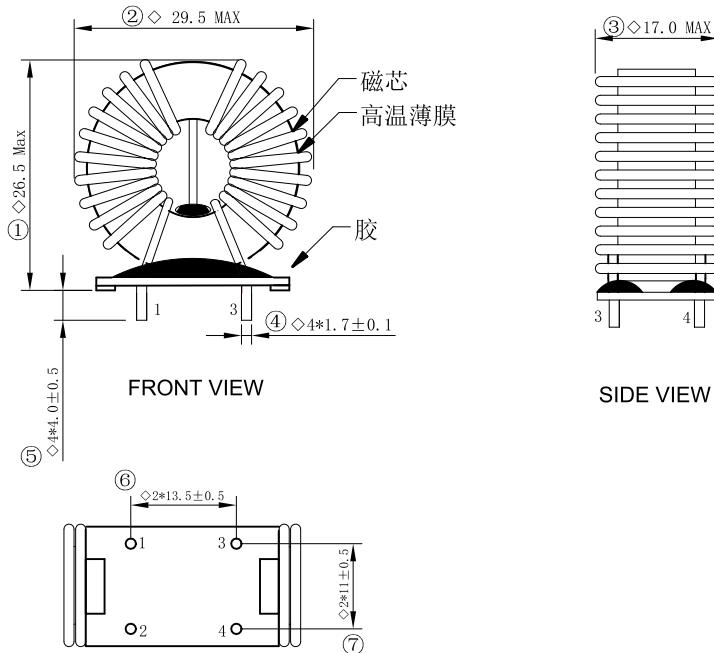


- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



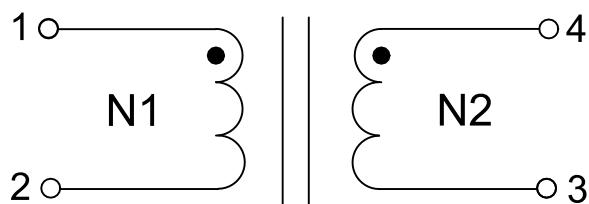
Electrical Specifications @25°C						
Part Number	Turns Ratio	OCL (mH MIN) @1KHz, 0.25V	DCR (mΩ MAX)	Z (Ω MIN) @100KHz, 0.1V, 25°C	Z (kΩ MIN) @1MHz, 0.1V, 25°C	HI-POT
	1-2:3-4	1-2=3-4	1-2=3-4	1-2=3-4	1-2=3-4	N1:N2
CMBA2210DG761N	11:11±0.3	0.76±35%	6	300	1.5	1.5KVAC 1mA 60S OR 1.8KVAC 1mA 3S

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



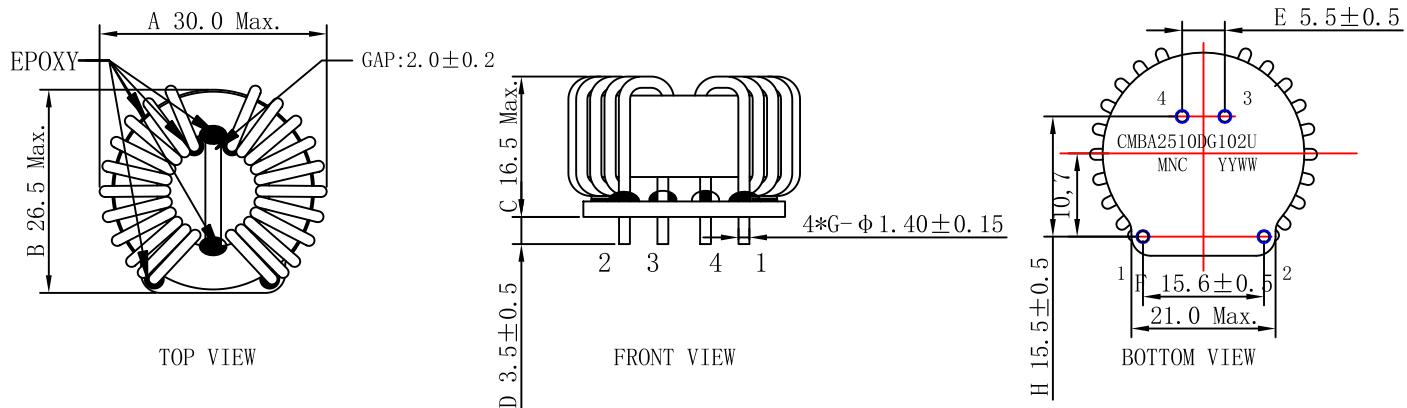
- RoHS Compliant.
- Termination finished: TIN.
- Operating Temperature Range: -40°C TO 125°C(including coil soft temperature rise)
- Storage temperature range: -40°C TO 125°C



#### Electrical Specifications @ 25°C

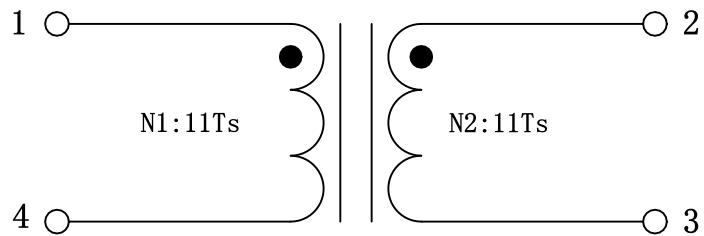
Part Number	L(mH) @1kHz/1V		Lk(uH) @1kHz/1V	Turns Ratio @20kHz/1.0V	DCR(mΩ) @20°C		HI-POT	IR
	1-4	2-3	1-4 (2 and 3 are shorted)	N1:N2	1-4	2-3	AC1.2kV/50Hz/1mA/60S	500V/60S
CMBA2510DG102U	1.0 Min. (1.1Typ.)	5.0Min. (6.5Typ.)		1:1	5.78 Max. (4.6 Typ.)		No breakdown, no arc	1000MΩ Min.

## MECHANICAL



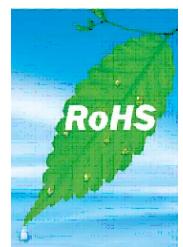
Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



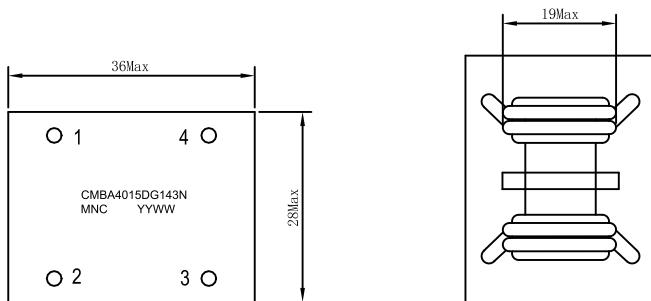
●:同相位脚

- RoHS Compliant (RoHS6).
- IEC62368-1 Compliant.
- Operating temperature range: -40°C to +125°C (including self-temperature rise)
- AEC-Q200 to be qualified.



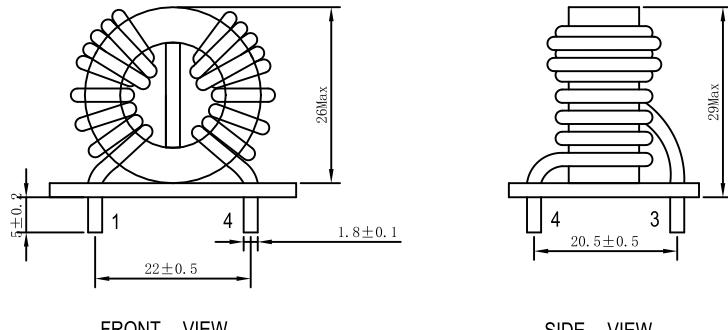
Electrical Specifications @ 25°C					
Part Number	Turns Ratio @20KHz,0.1V	OCL(uH) @1KHz,1V	DCR (mΩ Max)		HI-POT (VAC,1mA,60Sec)
	1-2:4-3	1-2=4-3	1-2	4-3	(1-2) TO (4-3)
CMBA2510DG201N	1:1±5%	200±30%	3.6	3.6	1500

## MECHANICAL



BOTTOM VIEW

TOP VIEW

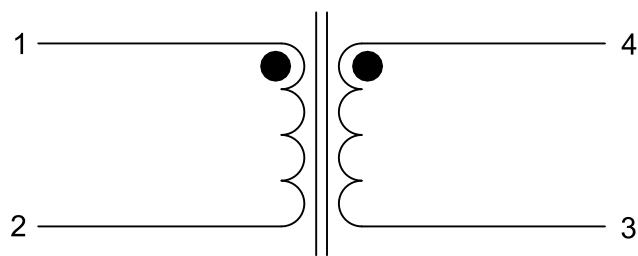


FRONT VIEW

SIDE VIEW

Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



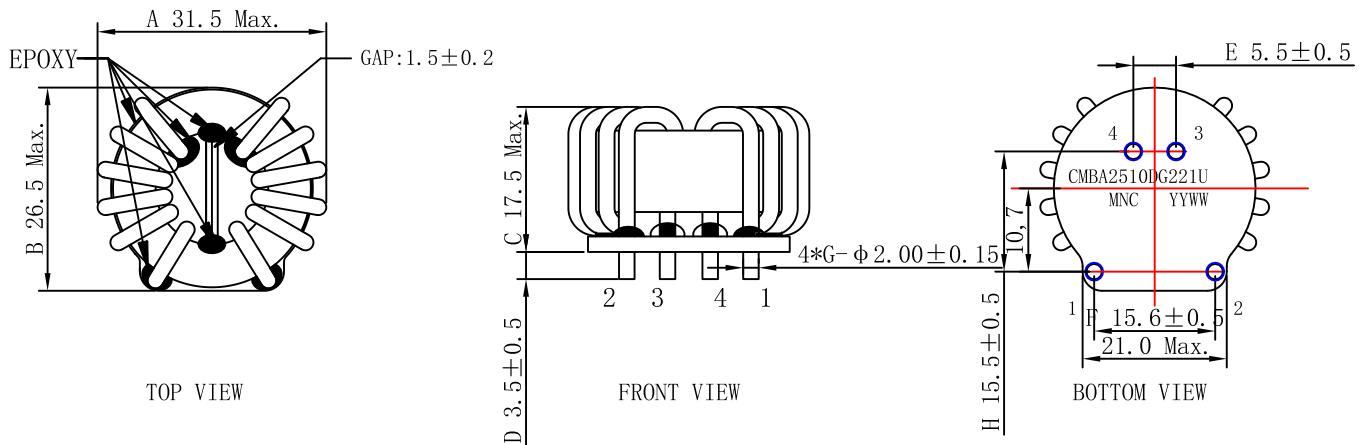
● In Phase

- RoHS Compliant.
- Termination finished: TIN.
- Operating Temperature Range: -40°C TO 125°C(including coil soft temperature rise)
- Storage temperature range: -40°C TO 125°C



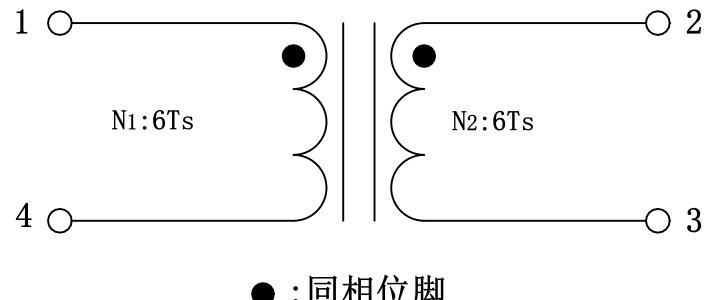
Part Number	Electrical Specifications @ 25°C								
	L(uH)		Lk(uH)		Turns Ratio	DCR(mΩ)		HI-POT	IR
	@1kHz/1V		@1kHz/1V		@20kHz/1.0V	@20°C		AC1.2kV/50Hz/1mA/60S	500V/60S
CMBA2510DG221U	1-4 220 (335Typ.)	2-3 1.5 Min. (2.1Typ.)	1-4 (2 and 3 are shorted)	N1:N2 1:1	1-4 2-3	N1-N2 3.0 Max. (2.1 Typ.)	No breakdown, no arc	1000MΩ Min.	

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



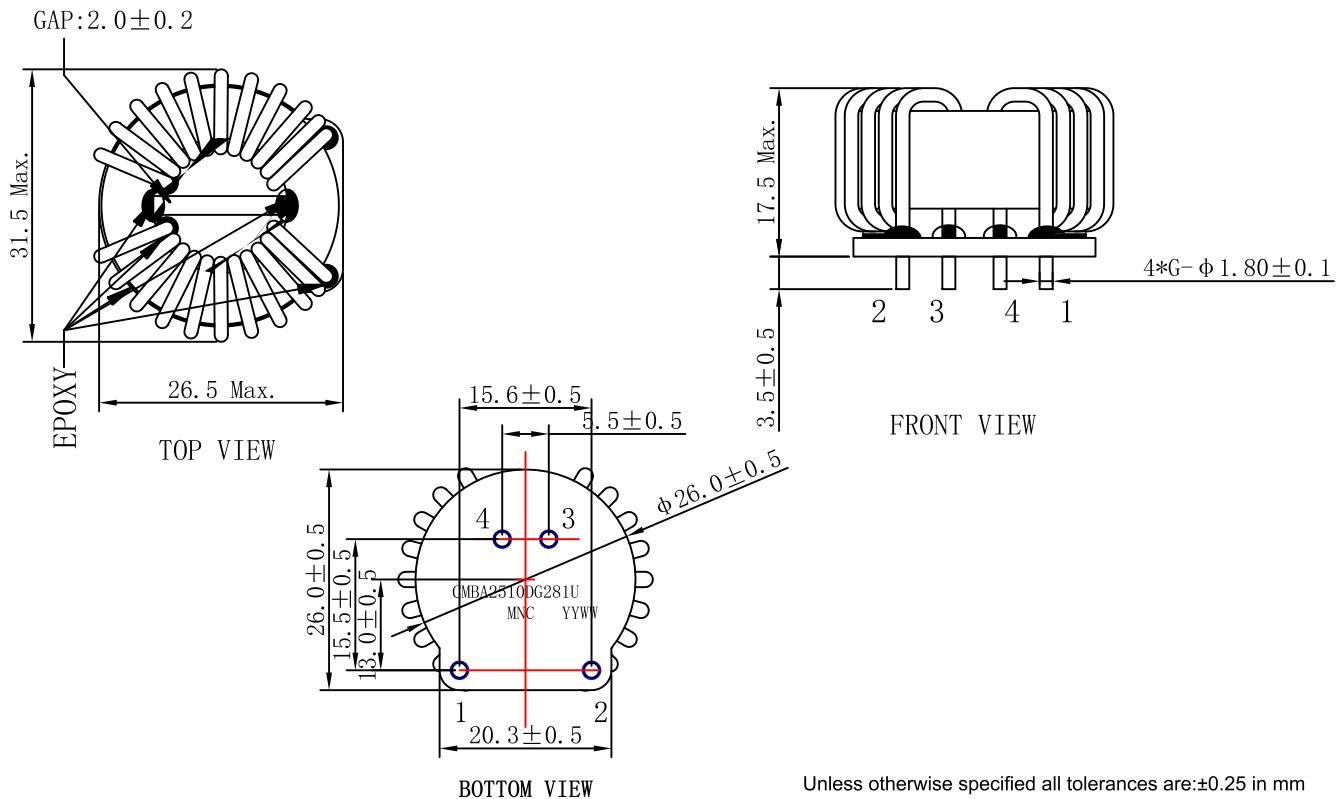
- RoHS Compliant.
- Termination finished: TIN.
- Operating Temperature Range: -40°C TO 125°C(including coil soft temperature rise)
- Storage temperature range: -40°C TO 125°C



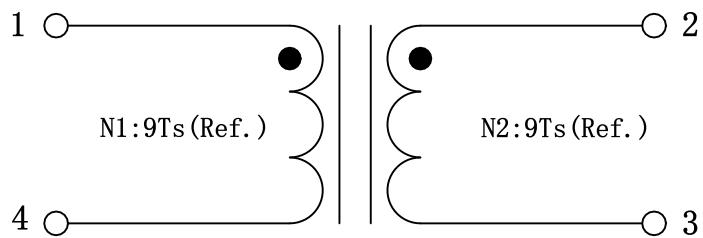
#### Electrical Specifications @ 25°C

Part Number	L(uH)		Lk(uH)	Turns Ratio	DCR(mΩ)		HI-POT	IR
	@1kHz/1V	@1kHz/1V	@20kHz/1.0V	@20°C		AC1.2kV/50Hz/1mA/60S	500V/60S	
CMBA2510DG281U	1-4 280.0 Min.	2-3 (2 and 3 are shorted)	1-4 2.8Min.	N1:N2 1:1	1-4 3.3 Max.	2-3 No breakdown, no arc	N1-N2 1000MΩ Min.	N1-N2

## MECHANICAL



## SCHEMATICS



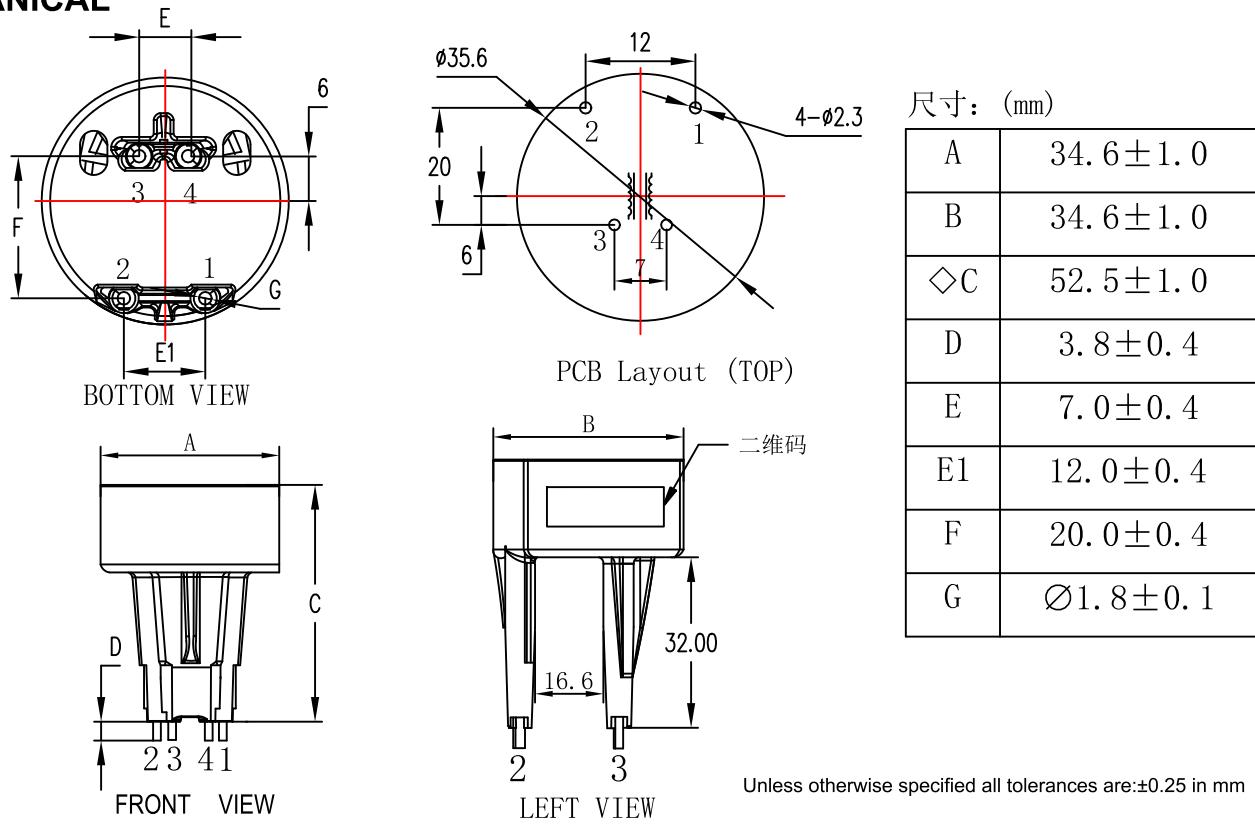
● : In phase

- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.

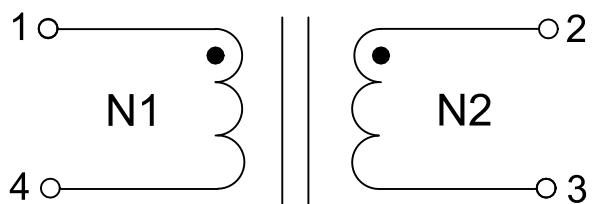


Electrical Specifications @25°C						
Part Number	Turns 20KHz, 1.0V	OCL ( $\mu$ H MIN) @100KHz, 1.0V	OCL ( $\mu$ H MAX) @100KHz, 1.0V	DCR (mΩ MAX)	IR	HI-POT
	1-4:2-3	1-4=2-3	L1-4-L2-3	1-4=2-3	COIL-COIL	COIL-COIL
CMBA2513DG331UA	6:6±0.3	330	9	6	500VDC 100MΩ 5S	1.5KVAC 1mA 60S

## MECHANICAL



## SCHEMATICS

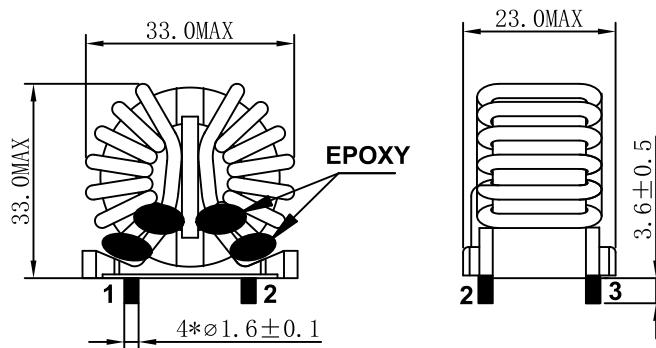


- High impedance to minimize common mode noise.
- AEC-Q200 in progress.
- Termination finished: Sn99.3-0.7Cu.
- Operating Temperature Range: -40°C TO 125°C(including coil soft temperature rise)
- Storage temperature range: -40°C TO 125°C



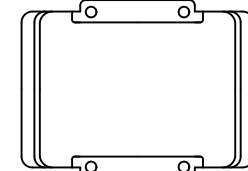
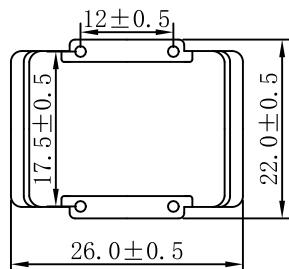
Electrical Specifications @ 25°C						
Part Number	OCL(uH) @1.0KHz,1.0V	LK(uH) @1.0KHz,1.0V; PIN2-3 SHORTED	Turns(TS)	DCR mΩ max		HI-POT (VAC,3S,1mA)
CMBA2513DG601U	N1(1-4)=N2(2-3) 600uH MIN	N1(1-4) 4.0uH±20%	N1=N2 9.0	1-4 5.0	2-3 5.0	1,4-2,3 3000

## MECHANICAL



FRONT VIEW

SIDE VIEW

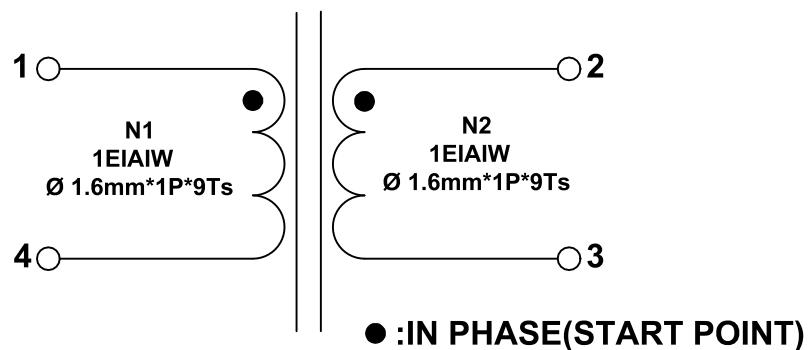


SUGGESTED PAD LAYOUT

BOTTOM VIEW

Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



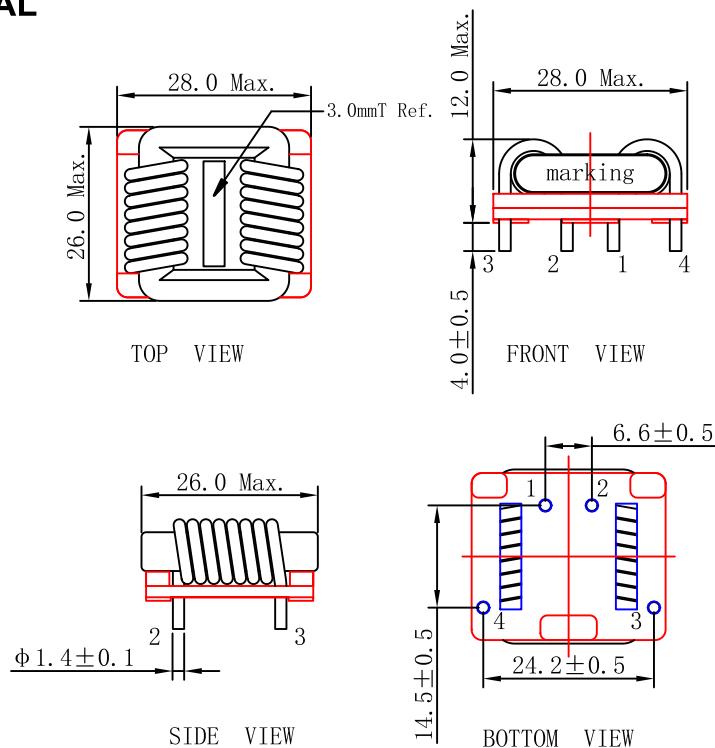
- RoHS Compliant.
- Termination finished:TIN.
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



### Electrical Specifications @25°C

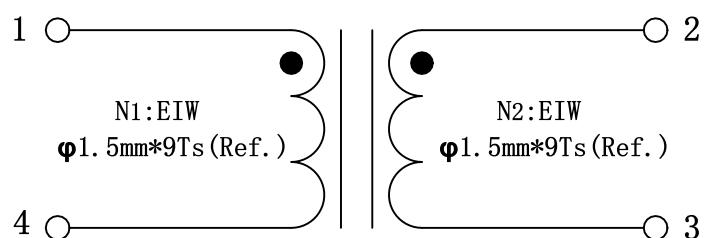
Part Number	Turns Ratio @20KHz, 1.0V	OCL ( $\mu$ H MIN) @1KHz, 1V	DCR ( $m\Omega$ MAX)	LK ( $\mu$ H REF) @1KHz, 1V	IR	HI-POT
	N1:N2	1-4=2-3	1-4=2-3	1-4 (Short others)	N1:N2	N1:N2
CMBA2521DG121U	1:1±3%	122.0	1.4	1.8	100MΩ 500V 60S	1.8kVAC 50Hz 1mA 60S

## MECHANICAL



Unless otherwise specified all tolerances are:  $\pm 0.25$  in mm

## SCHEMATICS



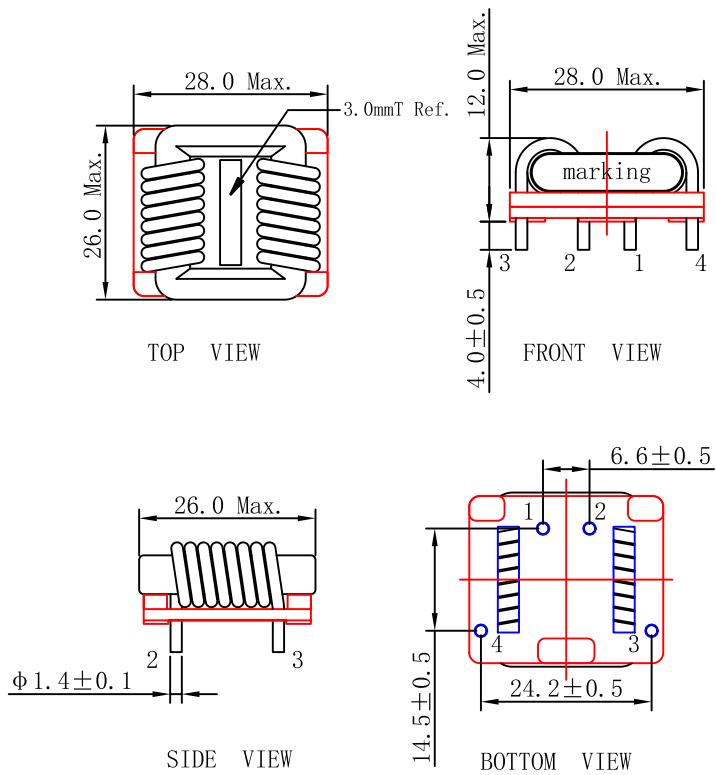
● : In phase

- RoHS Compliant.
- Termination finished: TIN.
- Operating Temperature Range: -40°C TO 125°C(including coil soft temperature rise)
- Storage temperature range: -40°C TO 125°C



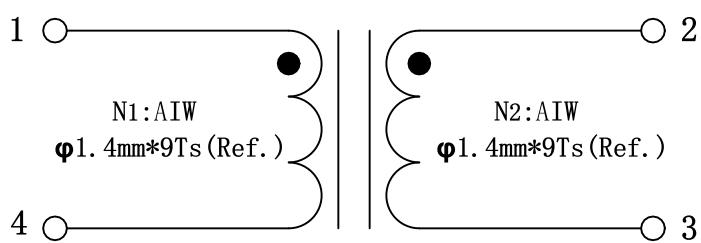
Part Number	Electrical Specifications @ 25°C						
	L(uH)		Lk(uH)	Turns Ratio	DCR(mΩ)		HI-POT
	@1kHz/1V	@1kHz/1V	@20kHz/1.0V	@20°C		AC1.8kV/50Hz/1mA/60S	500V/60S
CMBA2521DG221U	1-4 220.0 Min.	2-3 (2 and 3 are shorted)	1-4 4.8 Ref.	N1:N2 1:1	1-4 3.8 Max.	N1-N2 No breakdown, no arc	N1-N2 100MΩ Min.

## MECHANICAL



Unless otherwise specified all tolerances are:  $\pm 0.25$  in mm

## SCHEMATICS



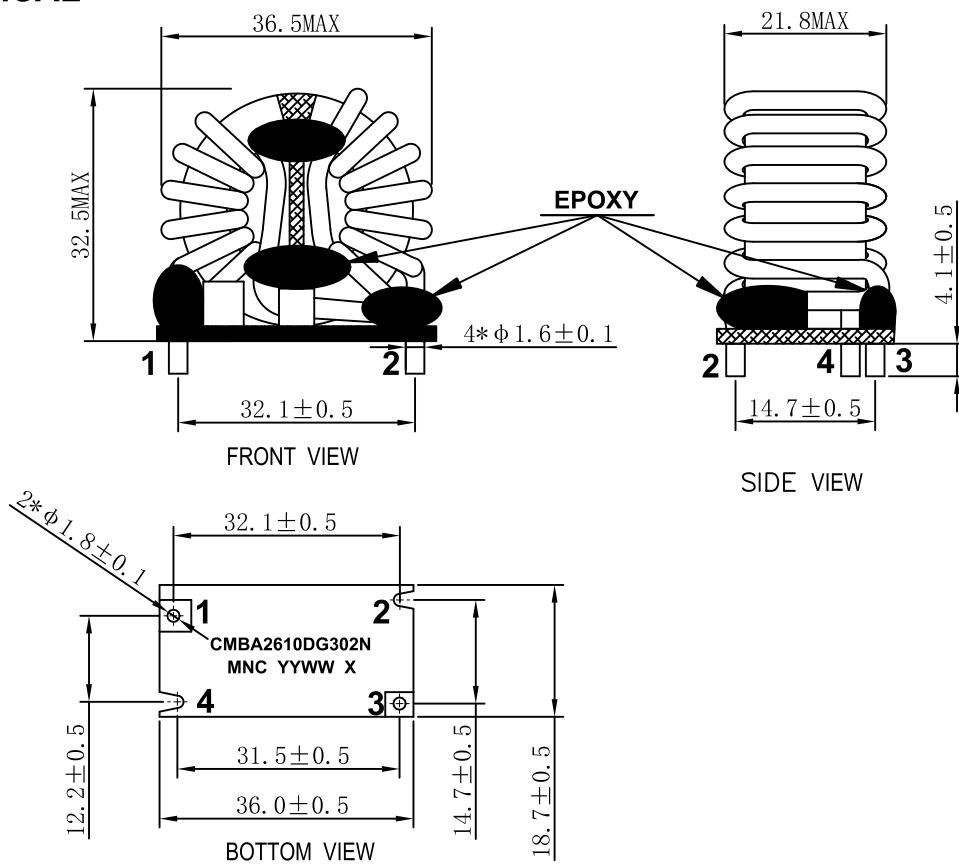
● : In phase

- High impedance to minimize common mode noise.
- AEC-Q200 in progress.
- Termination finished: Sn99.3-0.7Cu.
- Operating Temperature Range: -40°C TO 125°C(including coil soft temperature rise)
- Storage temperature range: -40°C TO 125°C
- Welding temperature : 260°C



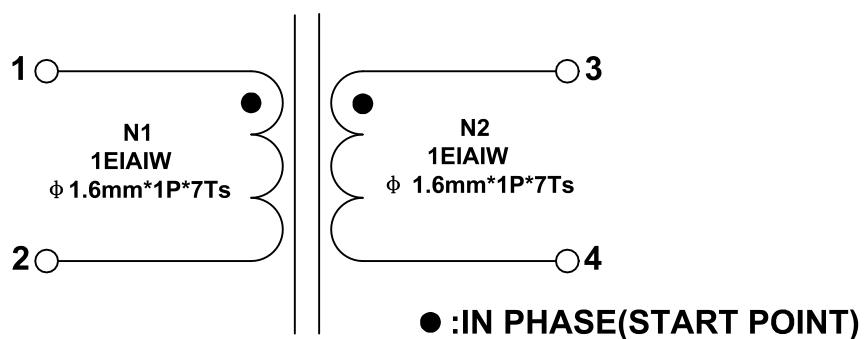
Electrical Specifications @ 25°C							
Part Number	OCL(uH) @1.0KHz,0.25V	Rate Current (A Max)	Turns(TS)	DCR mΩ max	HI-POT (VAC,3S,1mA)		
CMBA2610DG302N	N1(1-2)=N2(3-4) 3.0mH+50%/-30%	20	N1=N2 7.0(ref)	1-2 4.0	3-4 4.0	1,2-3,4 3000	1,3-Core 2000

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

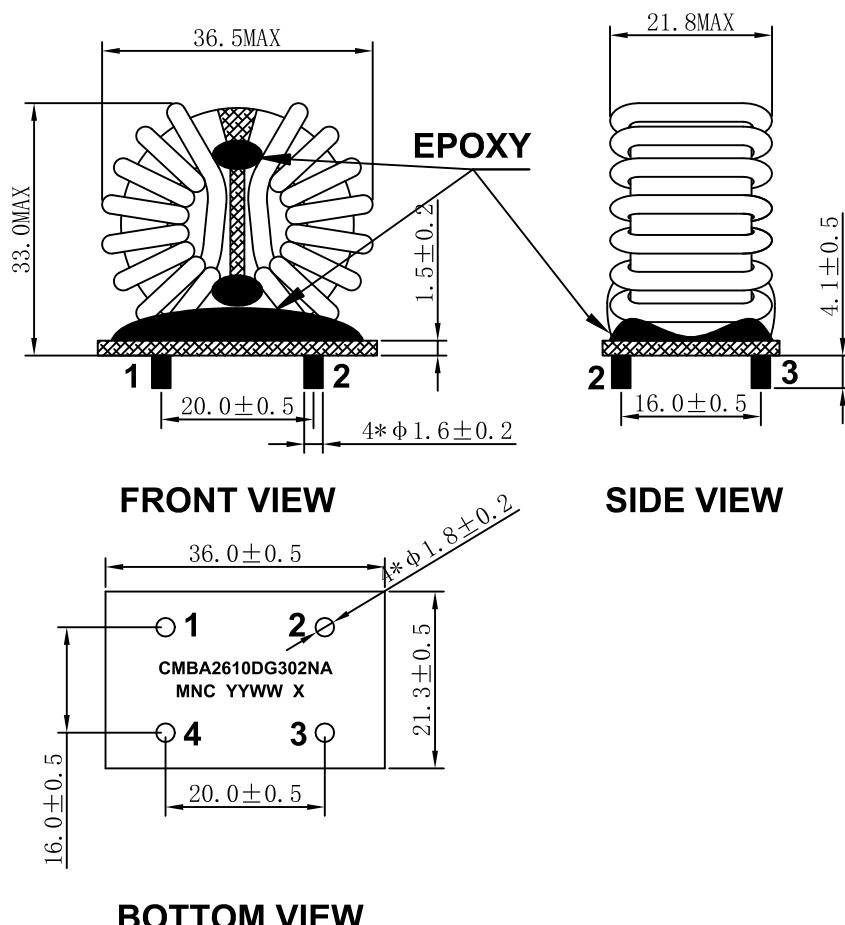


- High impedance to minimize common mode noise.
- AEC-Q200 in progress.
- Termination finished: Sn99.3-0.7Cu.
- Operating Temperature Range: -40°C TO 125°C(including coil soft temperature rise)
- Storage temperature range: -40°C TO 125°C
- Welding Temperature: 260° C



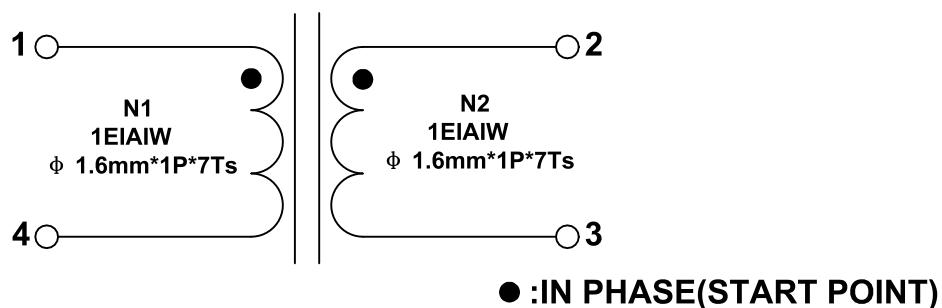
Electrical Specifications @ 25°C							
Part Number	OCL(uH) @1.0KHz,0.25V	Rate Current (A Max)	Turns(TS)	DCR mΩ max	HI-POT (VAC,3S,1mA)		
CMBA2610DG302NA	N1(1-4)=N2(2-3) 3.0mH+50%/-30%	20	N1=N2 7.0(ref)	1-4 4.0	2-3 4.0	1.4-2,3 3000	1,2-Core 2000

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

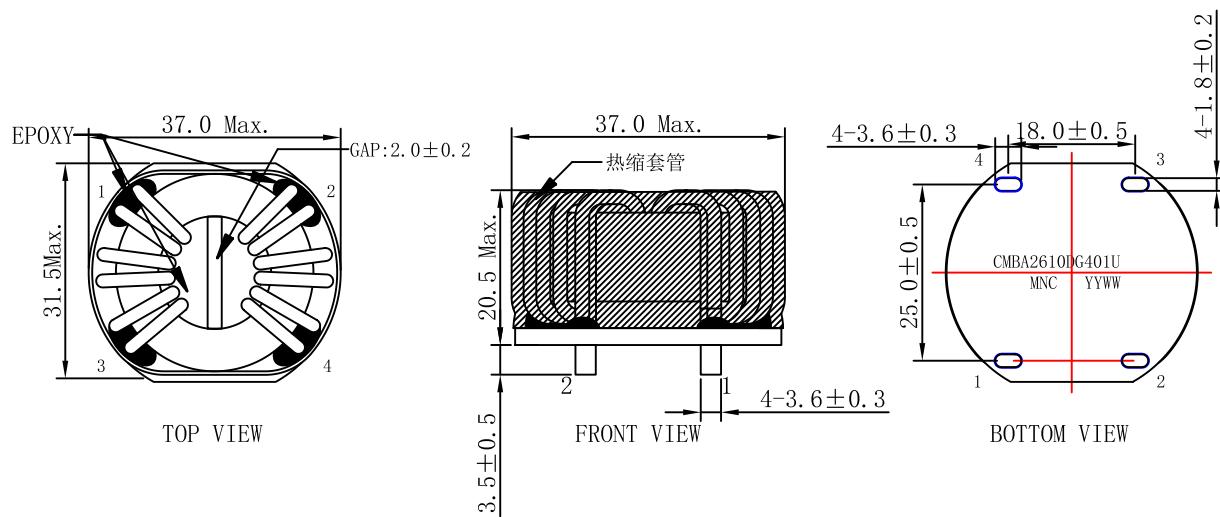


- RoHS Compliant.
- Termination finished: TIN.
- Operating Temperature Range: -40°C TO 125°C(including coil soft temperature rise)
- Storage temperature range: -40°C TO 125°C



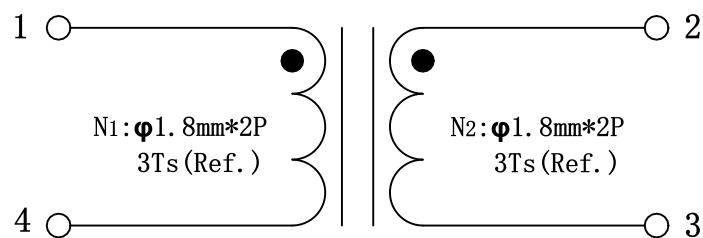
Part Number	Electrical Specifications @ 25°C							
	L(uH)		Lk(uH)	Turns Ratio	DCR(mΩ)		HI-POT	IR
	@1kHz/1V	@1kHz/1V	@20kHz/1.0V	@20°C		AC1.5kV/50Hz/1mA/60S	500V/60S	
CMBA2610DG401U	1-4 400 (589.6Typ.)	2-3 0.4 Ref. (0.45Typ.)	1-4 (2 and 3 are shorted) N1:N2 1:1	2-3 0.8Max. (0.62 Typ.)	1-4 N1-N2	2-3 No breakdown, no arc	1-4 N1-N2 1000MΩ Min.	

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



● : In phase

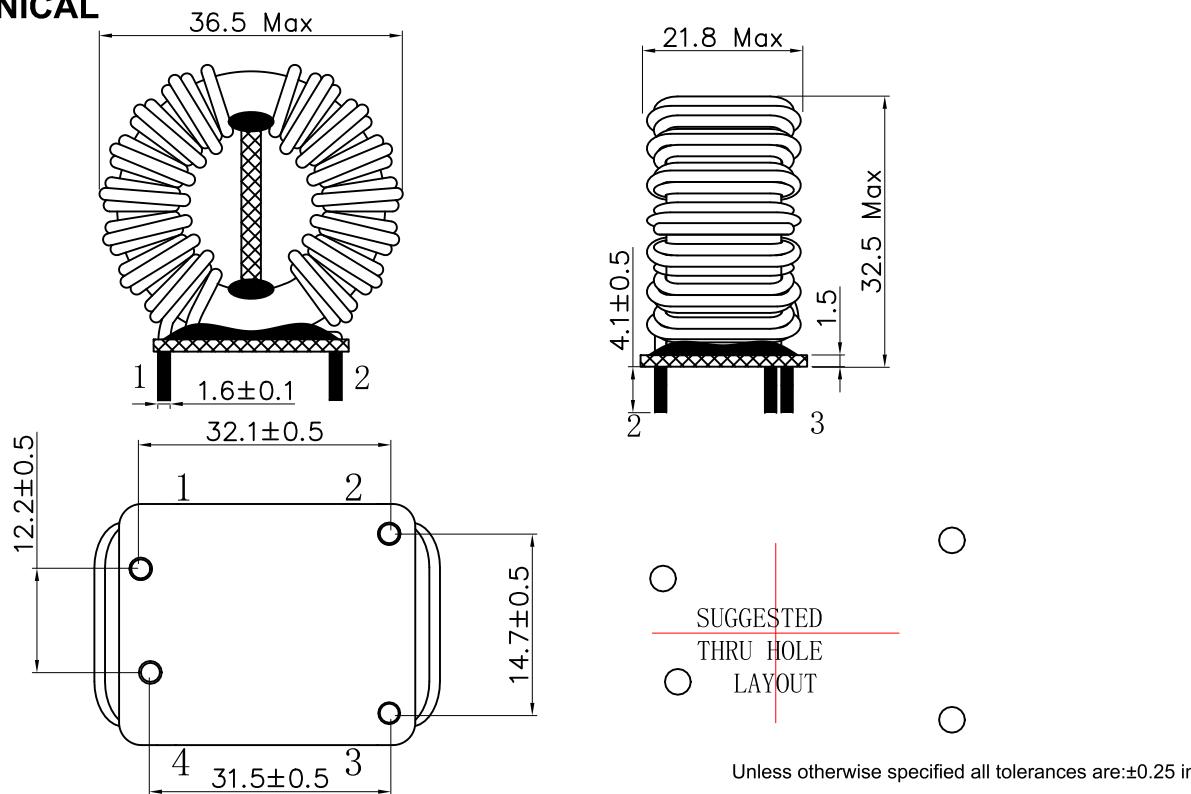
- High impedance to minimize common mode noise.
  - RoHS Compliant.
  - AEC-Q200 to be Qualified.
  - Operating temperature range: -40°C to +125°C.
  - Storage temperature range: -40°C to +125°C.



## **Electrical Specifications @25°C**

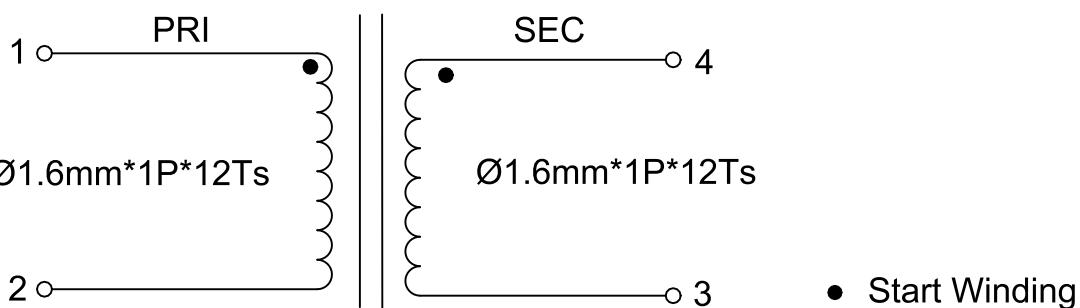
Part Number	TurnsRatio (±3%)	OCL(mH Min) @1KHz,0.25V	DCR (mΩ Max)	R. Current (A Max)	HI-POT ( 0.5mA 2S 50HZ)
	1-2:4-3	1-2=4-3	1-4=2-3	20	Pri-Sec
CMBA2610DG802U	1:1	8.0	6.5		2600VAC

## **MECHANICAL**



Unless otherwise specified all tolerances are:  $\pm 0.25$  in mm

## **SCHEMATICS**



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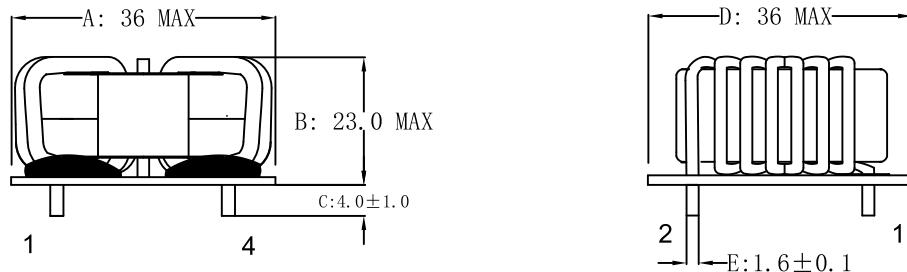
[www.mnc-tek.com](http://www.mnc-tek.com)

- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



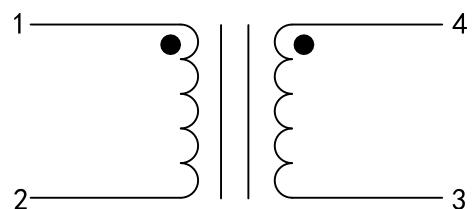
Electrical Specifications @25°C					
Part Number	Turns Ratio	OCL (mH MIN) @1KHz, 0.25V	DCR (mΩ MAX)	RATED CURRENT (A MAX)	HI-POT
	1-2:3-4	1-2=3-4	1-2=3-4		N1:N2
CMBA2610DG802UA	1:1±3%	8.0 (13mH±35%)	6.5	20	2.6kVAC 2mA 2S

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



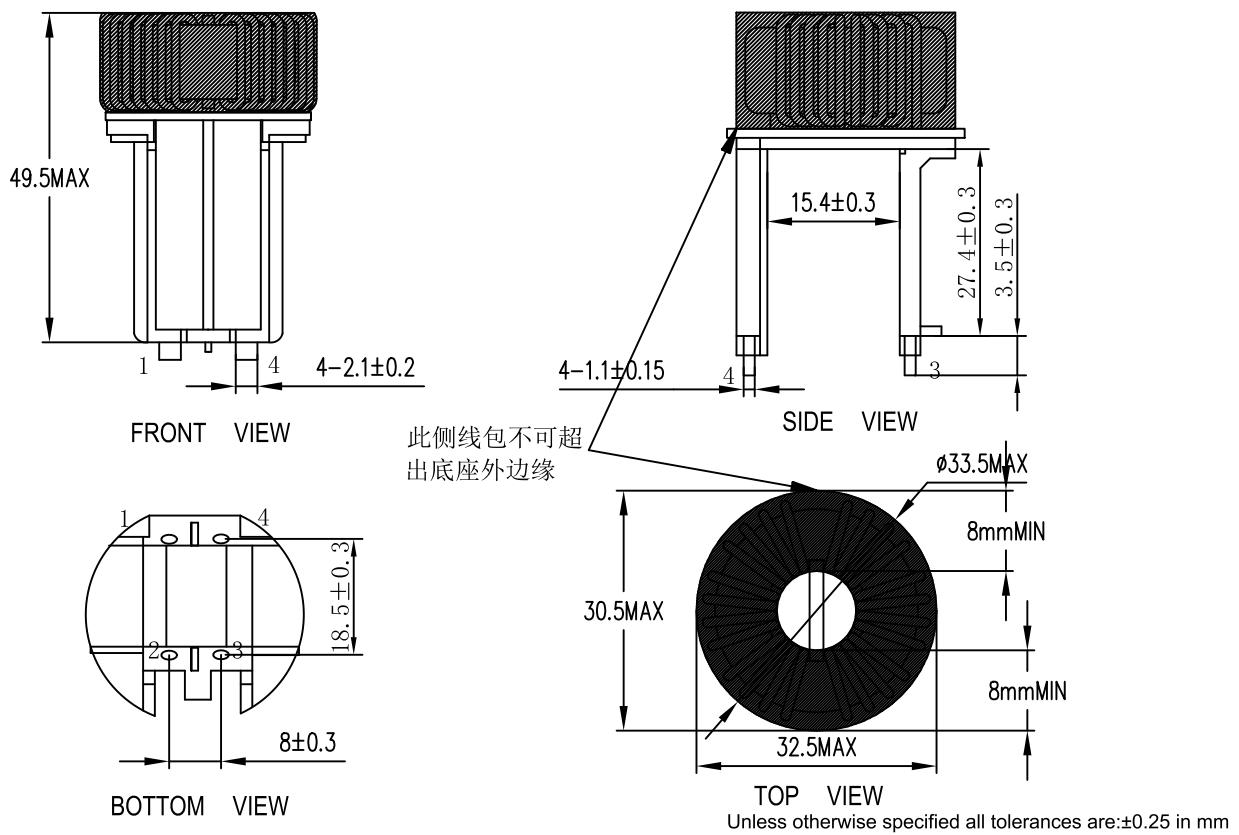
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



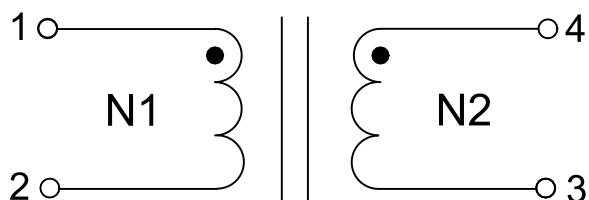
### Electrical Specifications @25°C

Part Number	Turns	OCL (mH MIN) @100KHz, 1.0V	DCR (mΩ MAX)	HI-POT		IR	Q值(MIN)
	N1:N2	1-2=3-4	1-2=3-4	COIL-COIL	COIL-CORE	COIL-COIL	1-2=3-4
CMBA2813DG172U	15:15±3%	1.7	13.5	1.5KVAC 5mA 60S	1000VAC 5mA 60S	500VDC 100MΩ MIN	5

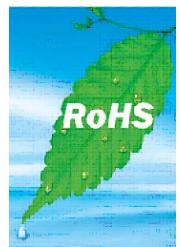
## MECHANICAL



## SCHEMATICS

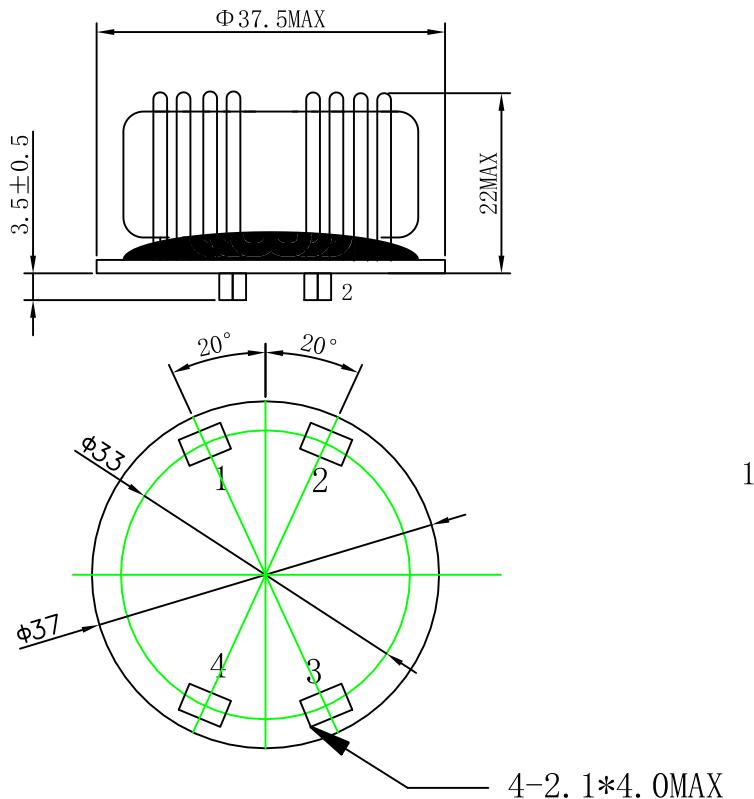


- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



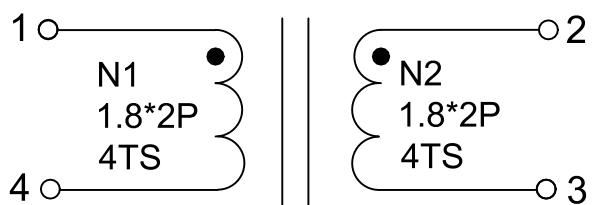
Electrical Specifications @25°C			
Part Number	Turns	OCL ( μ H) @10KHz, 1.0V	HI-POT
	N1:N2	1-4=2-3	COIL-COIL
CMBA2813DG231N	4:4±3%	232±35%	1.5KVAC 1mA 60S

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

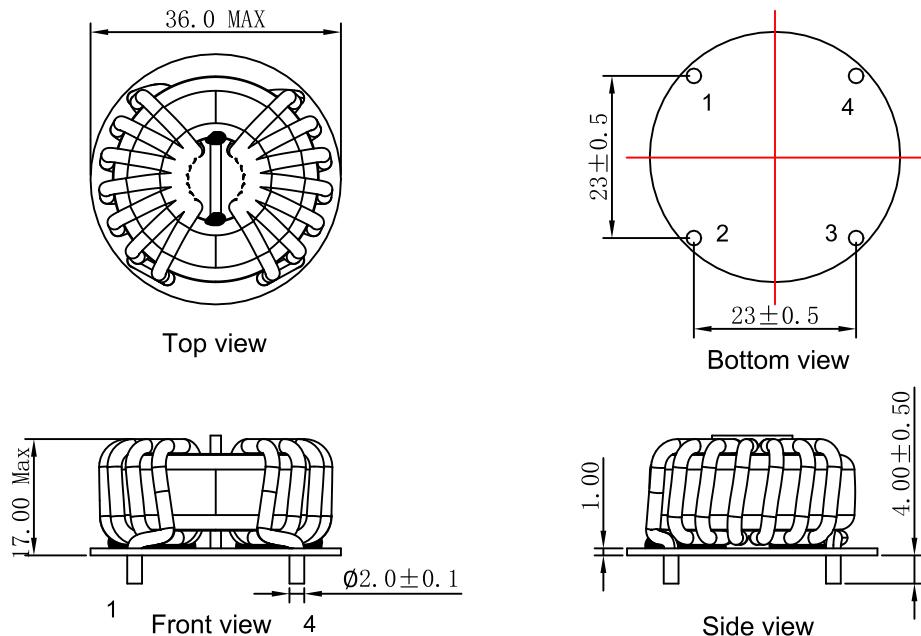


- RoHS Compliant (RoHS6).
- IEC62368-1 Compliancy.
- Termination finished: Sn-0.7Cu.
- Storage temperature range : -40°C to +125°C.
- Operating temperature range: -40°C to +125°C(including self-temperature rise)



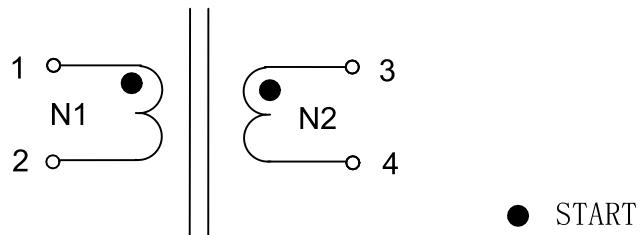
Electrical Specifications @25°C				
Part Number	Turns Ratio @20KHz, 1V	OCL @1KHz, 0.25V	DCR (mΩ Max)	HI-POT (5mA, 3Sec 50HZ)
CMBA2911DG202U	1-2:4-3 7:7	1-2/4-3 2.0mH min	1-2/4-3 5.5 max	1-4 AC2.0KV

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



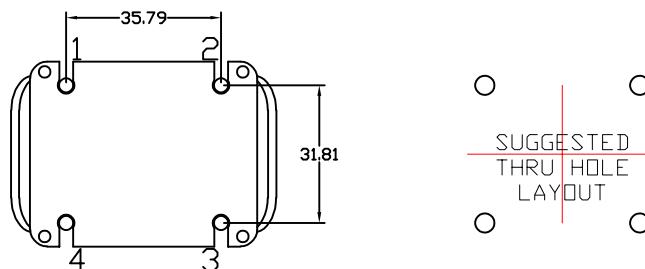
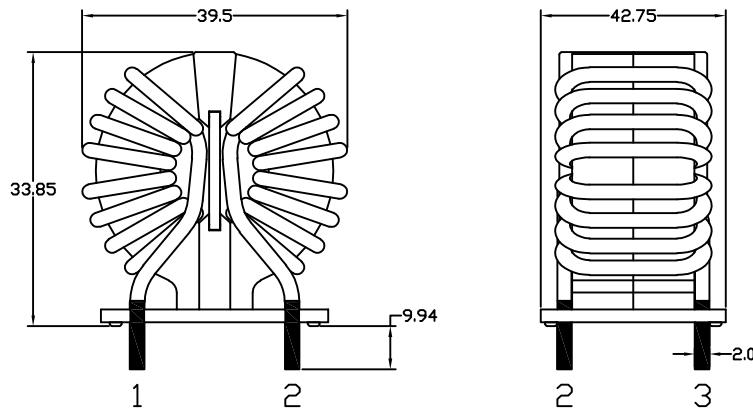
- High impedance to minimize common mode noise.
- RoHS Compliant.
- AEC-Q200 Qualified.
- Operating temperature range: -40°C to +125°C.
- Storage temperature range: -40°C to +125°C.



## Electrical Specifications @25°C

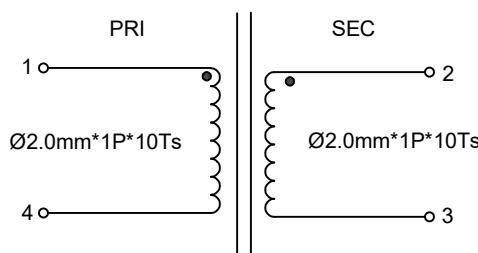
Part Number	Turns Ratio(±3%)	OCL(mH Min) @10KHz,1V	OCL(mH Min) @100KHz,1V	DCR (mΩ Max)	Impedance (Ω Min)	HI-POT (V)
CMBAA3010DG102U	1:4:2:3	1.4=2=3	1.4=2=3	1.4=2=3	25MHz	Pri-Sec

## MECHANICAL DIMENSIONS (mm)



Unless otherwise specified all tolerances are ±0.25 in mm

## SCHEMATICS



• Start Winding

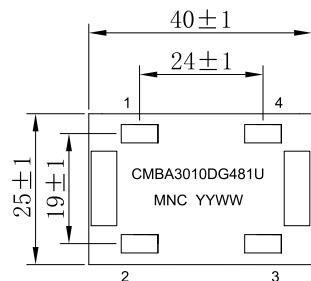
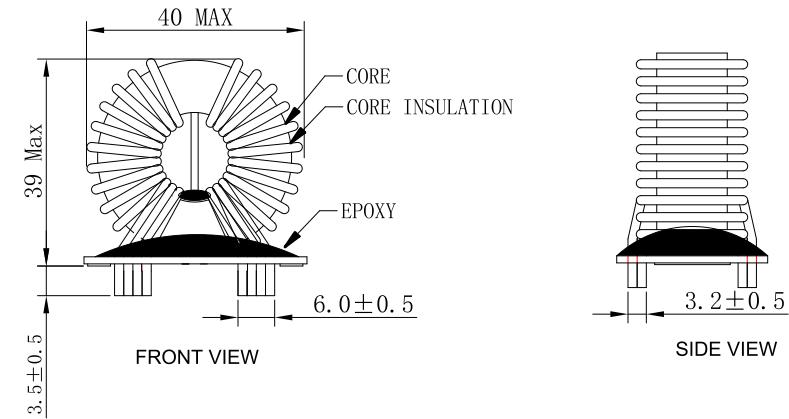
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



### Electrical Specifications @25°C

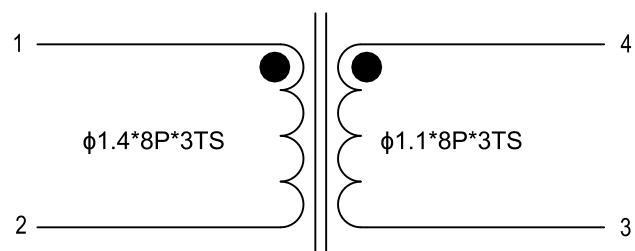
Part Number	Turns Ratio	OCL ( $\mu$ H MIN) @10KHz, 1V	DCR ( $\text{m}\Omega$ MAX)	HI-POT
	1-2:3-4	1-2=3-4	1-2=3-4	N1:N2
CMBA3010DG481U	3:3±3%	480	3	2.5kVAC 3mA 2S

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



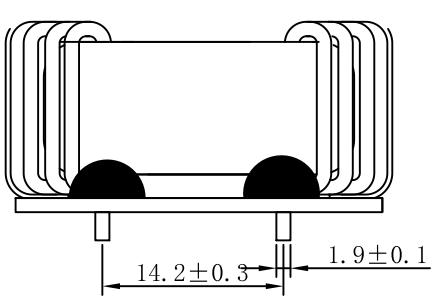
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



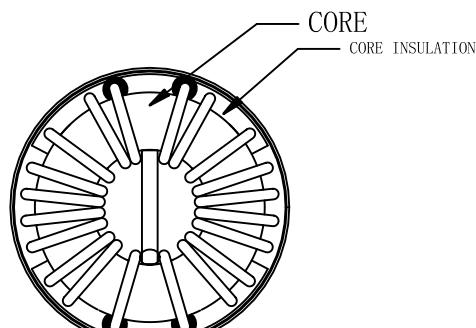
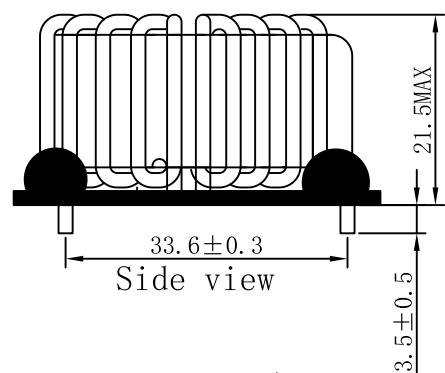
### Electrical Specifications @25°C

Part Number	Turns Ratio	OCL (mH MIN)	DCR (mΩ)	IR	HI-POT
	N1:N2	1-3=2-4	1-3=2-4	N1:N2	N1:N2
CMBA3010DG522N	9:9±3%	10KHz 0.25V 5.2mH TYP	100KHz 0.25V 1.5mH TYP	2.1-3.2	500VDC 6GΩ MIN 2.5kVAC 3mA 2S

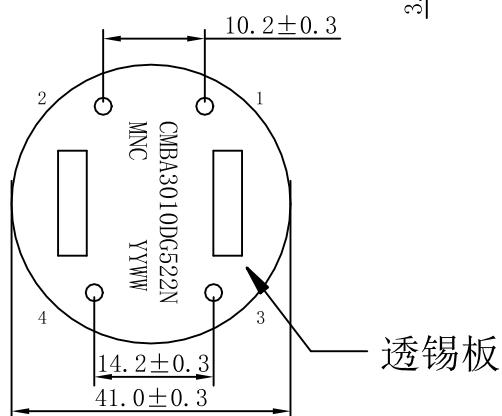
## MECHANICAL



Front view



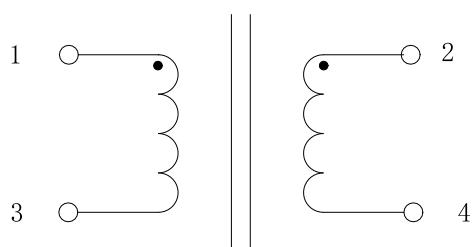
Top view



Bottom view

Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

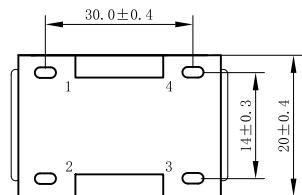
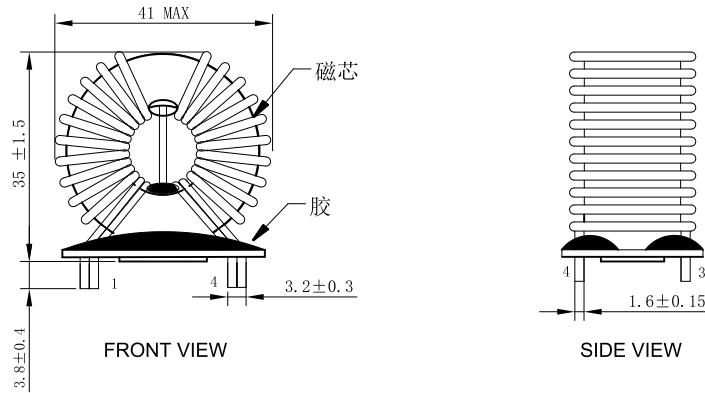


- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



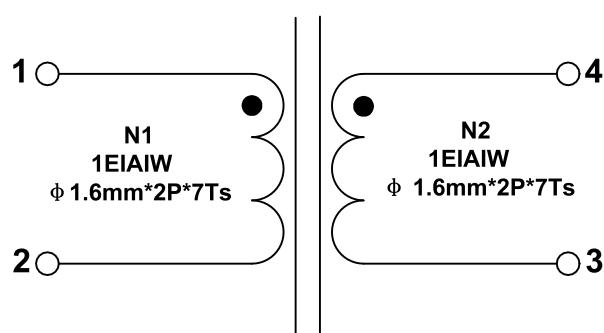
Electrical Specifications @25°C				
Part Number	Turns Ratio	OCL @100KHz, 0.1V	DCR (mΩ MAX)	HI-POT
	1-2=3-4	1-2=3-4	winding-winding	
CMBA3010DG751U	2*7TS	750 μH MIN (1.2mH±35%TYP)	4	2000VAC 1mA 3S

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

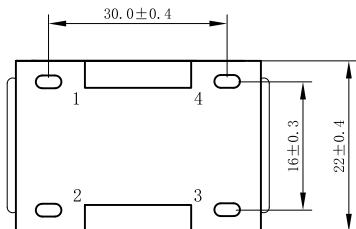
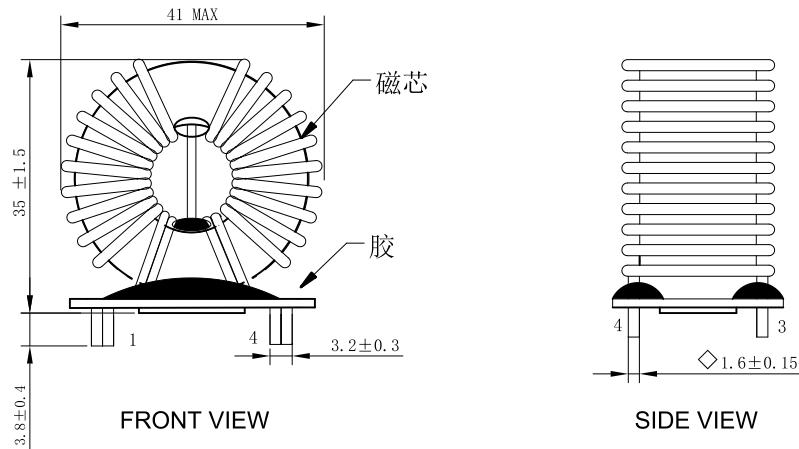


- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



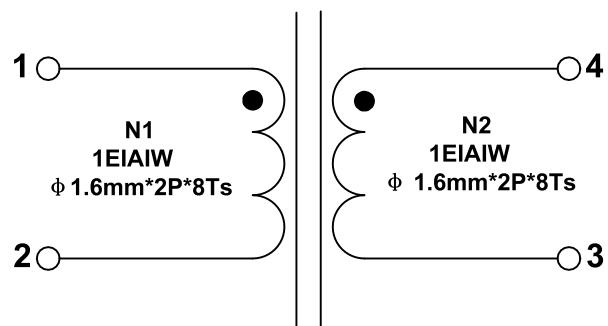
Electrical Specifications @25°C					
Part Number	Turns Ratio	OCL @100KHz, 0.1V	DCR (mΩ MAX)	HI-POT	Z
	1-2=3-4	1-2=3-4	N1:N2	N1:N2	
CMBA3012DG751U	2*8TS	750 μH MIN (1.2mH±35%TYP)	4	2000VAC 1mA 3S	100KHz 0.1V 720 Ω MIN      100KHz 0.1V 720 Ω MIN

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



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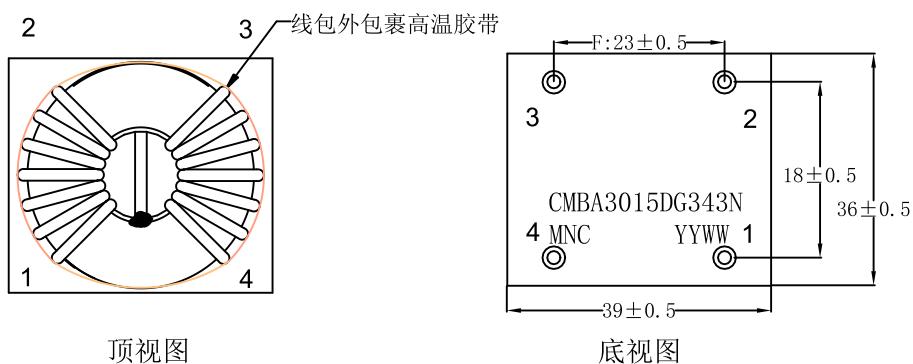
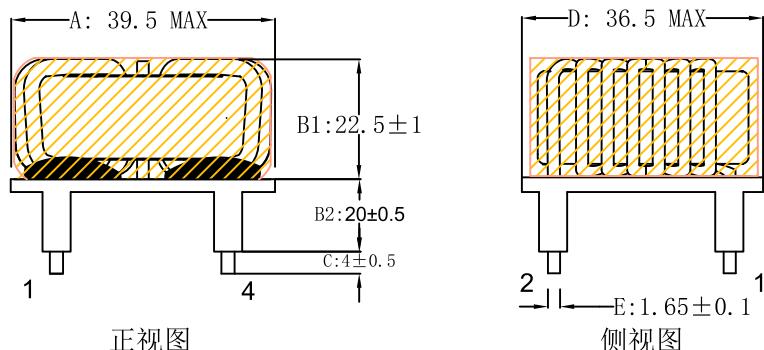
- RoHS Compliant.
- IEC60950 Compatible.
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



### Electrical Specifications @25°C

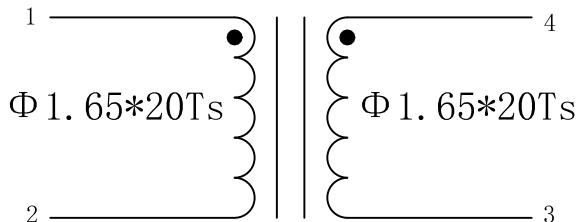
Part Number	Turns Ratio	OCL (mH) @1KHz, 1V	DCR (mΩ MAX)	HI-POT
	1-2=3-4	1-2=3-4	1-2=3-4	winding-winding
CMBA3015DG343N	2*20TS	33.85±30%	10.5	3000VDC 1mA 3S

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



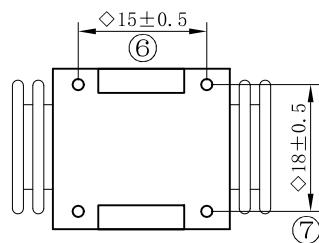
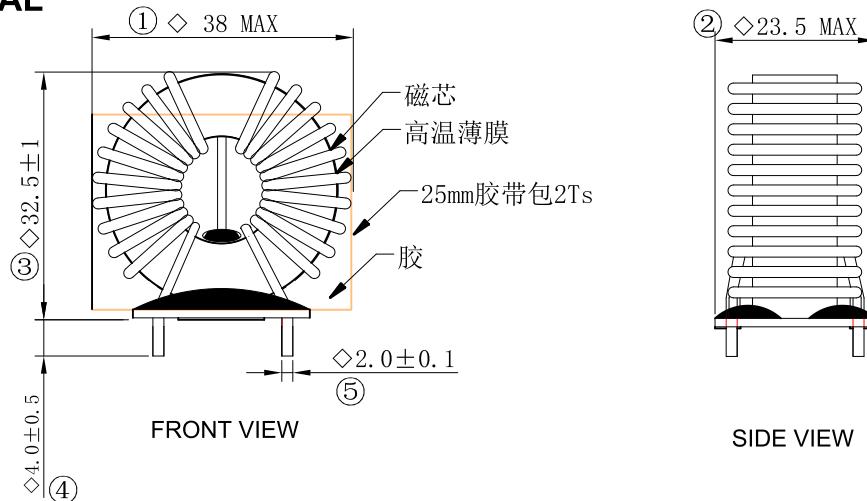
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



### Electrical Specifications @25°C

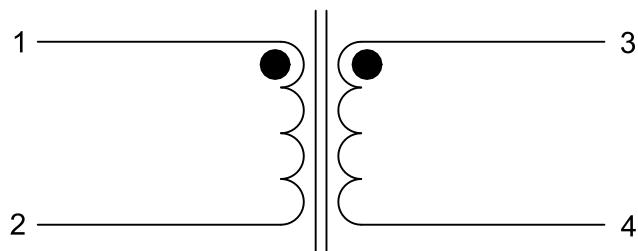
Part Number	Turns (20KHz, 1V)	OCL (mH) @10KHz, 0.1V	DCR (mΩ MAX)	HI-POT	Z
	1-2:3-4	1-2=3-4	1-2=3-4	N1:N2	1-2=3-4
CMBA3015DG652N	11:11±3%	6.5±30%	4	1800VAC 1mA 3S	100KHz 0.1V 1.5KΩ MIN      1MHz 0.1V 4.0KΩ MIN

### MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

### SCHEMATICS

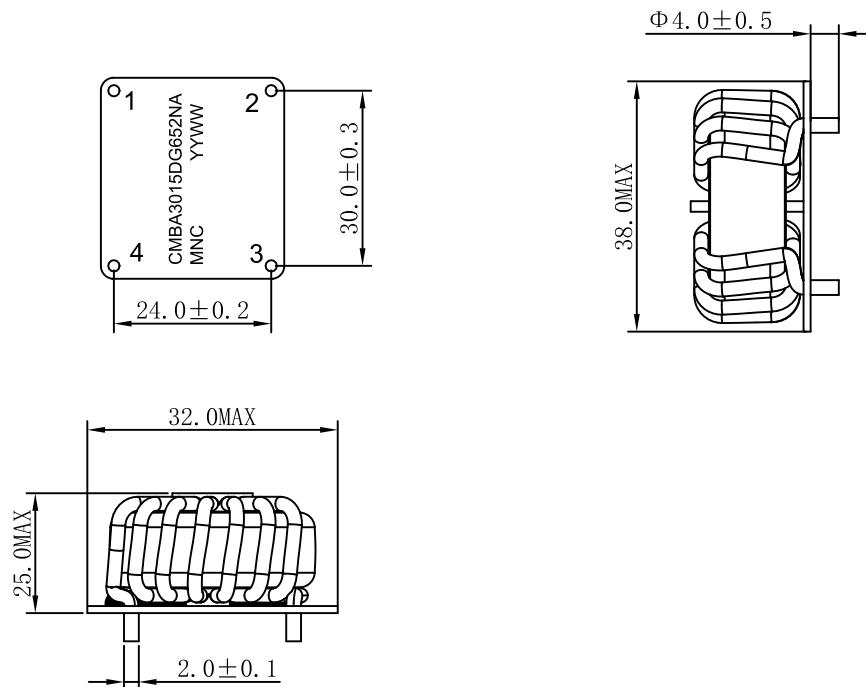


- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



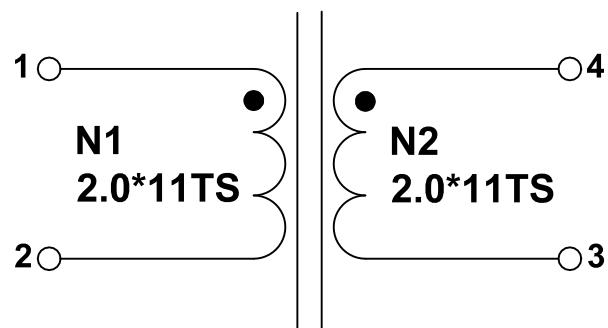
Electrical Specifications @25°C					
Part Number	Turns (20KHz, 1V)	OCL (mH) @10KHz, 0.1V	DCR (mΩ MAX)	HI-POT	Z
	N1:N2	1-2=3-4	1-2=3-4	N1:N2	1-2=3-4
CMBA3015DG652NA	11:11±3%	6.5±30%	4	1800VAC 1mA 3S	100KHz 1V 1.5KΩ MIN      1MHz 1V 4.0KΩ MIN

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



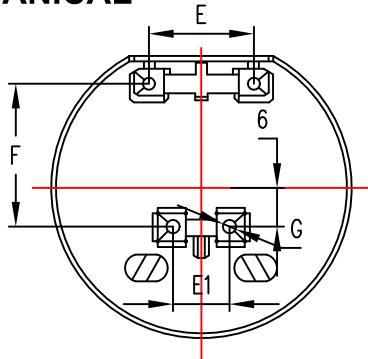
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



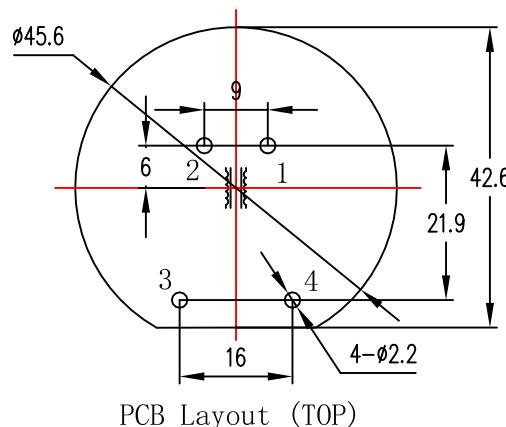
### Electrical Specifications @25°C

Part Number	Turns (20KHz, 1V)	OCL (mH) @10KHz, 1V	OCL (mH MIN) @100KHz, 1V	OCL (μ H MAX) @100KHz, 1V	DCR (mΩ MAX)	HI-POT	IR
	1-4:2-3	1-4=2-3	1-4=2-3	L1-4-L2-3	1-4=2-3	COIL-COIL	COIL-COIL
CMBA3208DG122UA	11:11±3%	3.5-35%/ <sup>+45%</sup>	1.2	120	4.5	1500VAC 1mA 60S	500V 100MΩ 5S

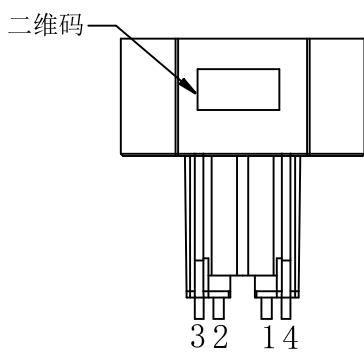
## MECHANICAL



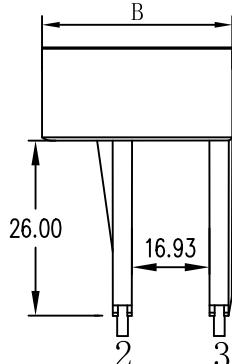
BOTTOM VIEW



PCB Layout (TOP)



FRONT VIEW



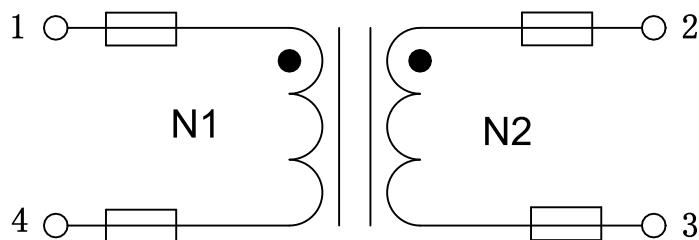
LEFT VIEW

Unless otherwise specified all tolerances are: ±0.25 in mm

尺寸: (mm)

A	44.6±1.0
B	41.6±1.0
◊C	45.0±1.0
D	3.8±0.4
E	16.0±0.4
E1	9.0±0.4
F	21.9±0.4
G	Ø1.7±0.1

## SCHEMATICS



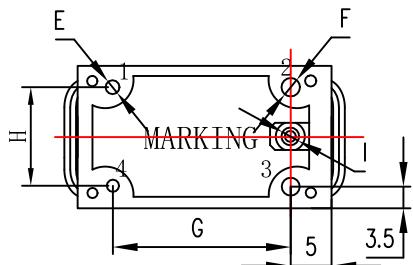
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



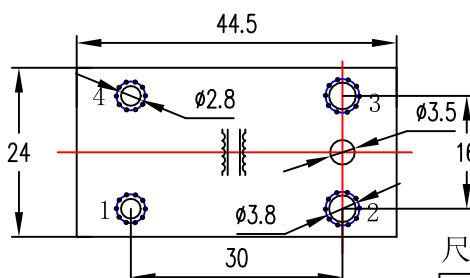
### Electrical Specifications @25°C

Part Number	Turns (20KHz, 1V)	OCL ( $\mu$ H MIN) @100KHz, 1V	OCL ( $\mu$ H MAX) @100KHz, 1V	LK ( $\mu$ H MIN) @100KHz, 1V	DCR (mΩ MAX)	HI-POT	IR
	1-4:2-3	1-4=2-3	L1-4-L2-3	1-2 (short others)	1-4=2-3	COIL-COIL	COIL-COIL
CMBA3310DG701U	7:7±3%	700	35	0.5	4.5	1500VAC 1mA 60S	500V 100MΩ 5S

## MECHANICAL

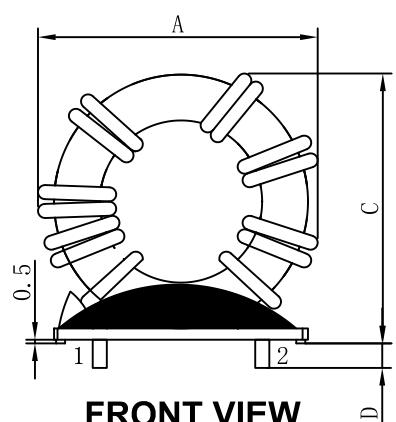


BOTTOM VIEW

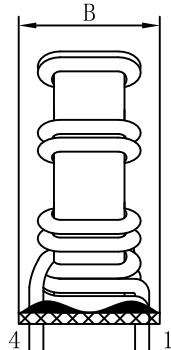


PCB Layout (TOP)

A	43.5±1.0
B	23.0±1.0
C	42.5±1.0
D	3.8±0.4
E	ø2.2±0.2
F	ø3.0±0.4
G	30.0±0.4
H	16.0±0.5
I	ø3.0±0.1

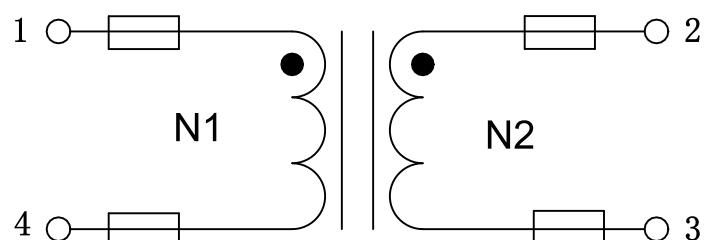


FRONT VIEW

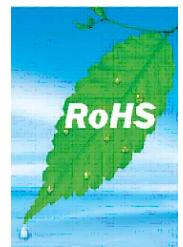


SIDE VIEW Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

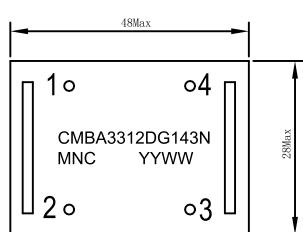


- RoHS Compliant (RoHS6).
- IEC62368-1 Compliant.
- Operating temperature range: -40°C to +125°C (including self-temperature rise)
- AEC-Q200 to be qualified.

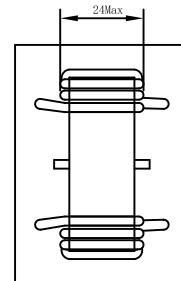


Electrical Specifications @ 25°C					
Part Number	Turns Ratio @20KHz,0.1V	OCL(mH) @10KHz,1V	DCR (mΩ Max)		HI-POT (VAC,1mA,60Sec)
	1-2:4-3	1-2=4-3	1-2	4-3	(1-2) TO (4-3)
CMBA3312DG143N	14:14±5%	14±30%	6.5	6.5	1500

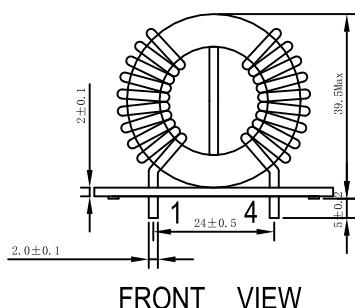
## MECHANICAL



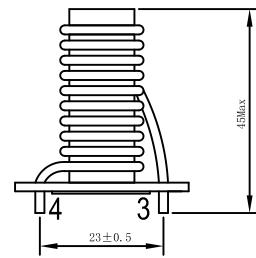
BOTTOM VIEW



TOP VIEW



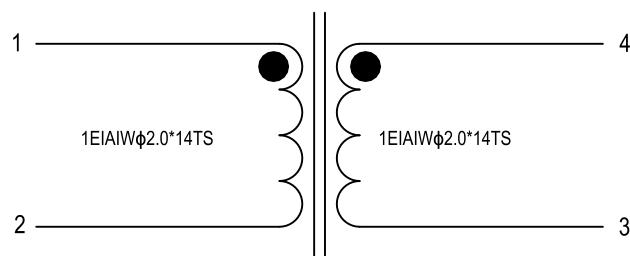
FRONT VIEW



SIDE VIEW

Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



● In Phase

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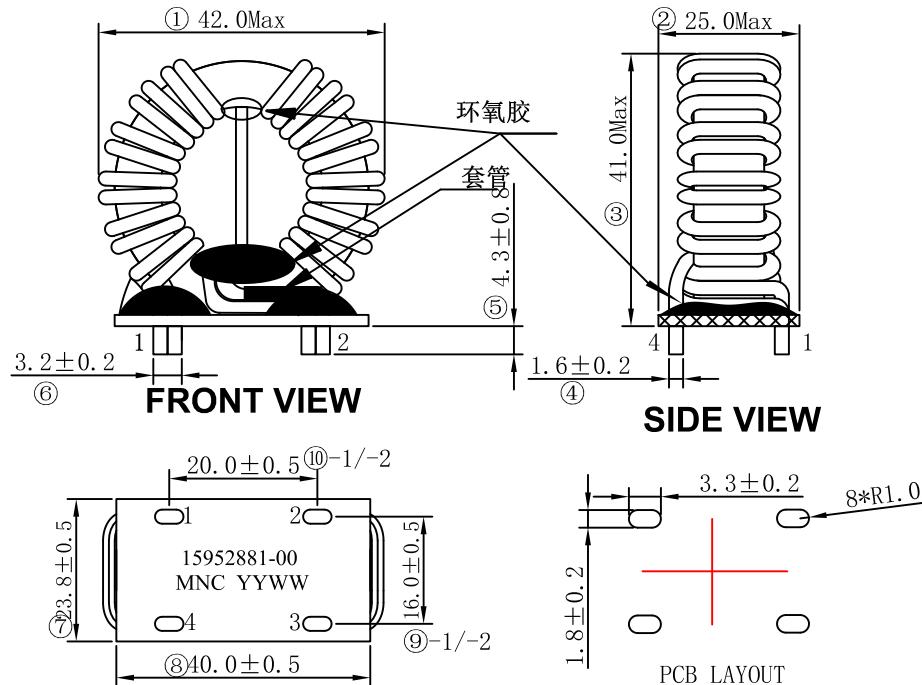
[www.mnc-tek.com](http://www.mnc-tek.com)

- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



Electrical Specifications @25°C					
Part Number	Turns (20KHz, 1V)	OCL (mH MIN) @1KHz, 1V	DCR (mΩ MAX)	RATED CURRENT (A MAX)	HI-POT
	N1:N2	1-2=3-4	1-2=3-4		N1:N2
CMBA3312DG802U	12:12±0.4	8.0	5	35	3.5KVDC 1mA 2S

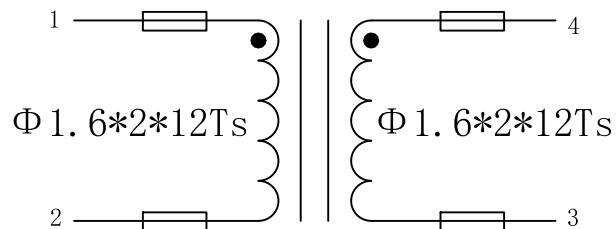
## MECHANICAL



## BOTTOM VIEW

Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

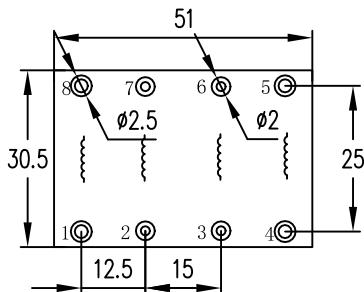
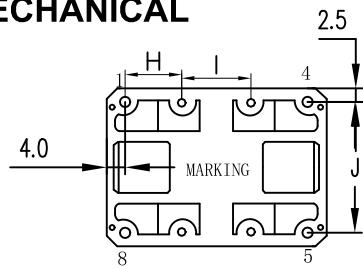


- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



Electrical Specifications @25°C											
Part Number	Turns (20KHz, 1V)	OCL (mH MIN) @100KHz, 1V	OCL ( μ H MAX) @100KHz, 1V					DCR (mΩ MAX)	HI-POT	IR	
	1-8:2-7:3-6:4-5	1-8=2-7=4-5=3-6	L1-8 -L2-7	L1-8 -L3-6	L1-8 -L4-5	L2-7 -L3-6	L2-7 -L4-5	L3-6 -L4-5	1-8=4-5 2-7=3-6	coil-coil	coil-coil
CMBA4015DG122U	7:7:7:7±3%	1.2	60					3.6	6.0	1500VAC 1mA 60S	500VDC 100MΩ 5S

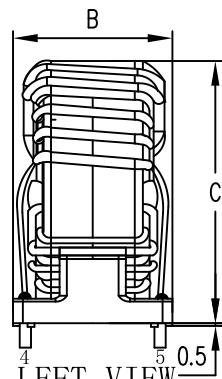
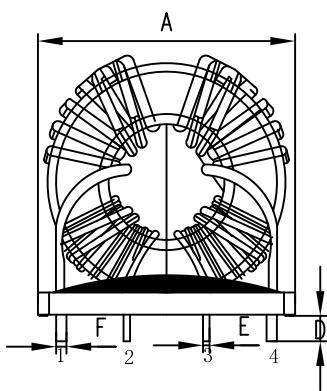
## MECHANICAL



尺寸: (mm)

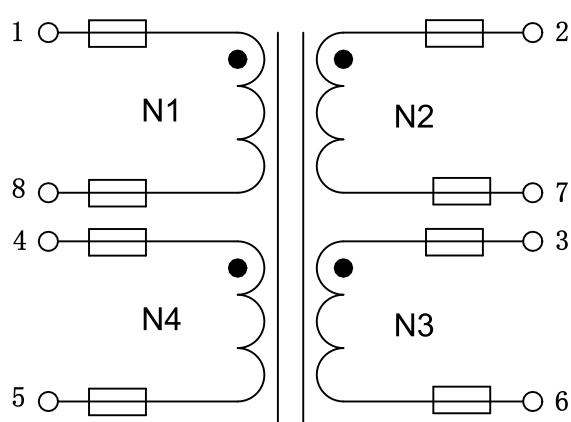
A	49.0±1.0
B	29.5±1.0
◇C	47.5±1.0
D	3.8±0.4
E	Ø1.5±0.15
F	Ø2.0±0.2
H	12.5±0.5
I	15.0±0.5
J	25.0±0.5

## BOTTOM VIEW



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



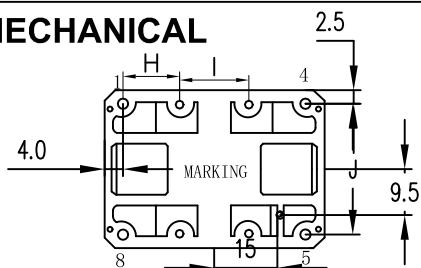
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



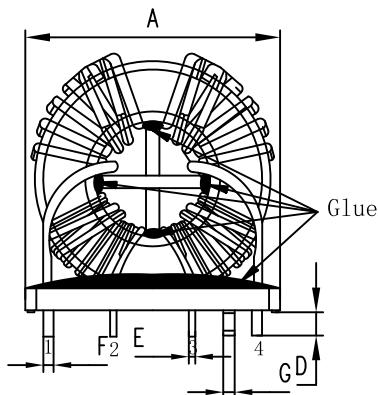
### Electrical Specifications @25°C

Part Number	Turns (20KHz, 1V)	OCL (mH MIN) @100KHz, 1V	OCL ( μ H MAX) @100KHz, 1V						DCR (mΩ MAX)	HI-POT	IR
1-8:2-7:3-6:4-5	1-8=2-7=4-5=3-6	L1-8  -L2-7   L1-8  -L3-6   L1-8  -L4-5   L2-7  -L3-6   L2-7  -L4-5   L3-6  -L4-5	1-8=4-5	2-7=3-6	coil-coil	coil-coil					
CMBA4015DG212U	8:8:8±3%	2.1	60	5.2	8.7	1500VAC 1mA 60S	500VDC 100MΩ 5S				

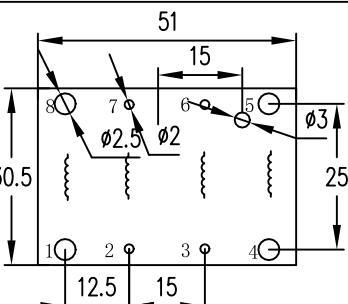
### MECHANICAL



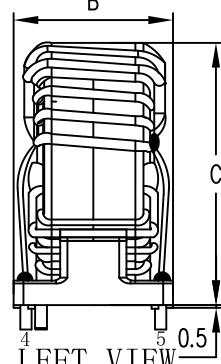
### BOTTOM VIEW



### FRONT VIEW



### PCB Layout (TOP)

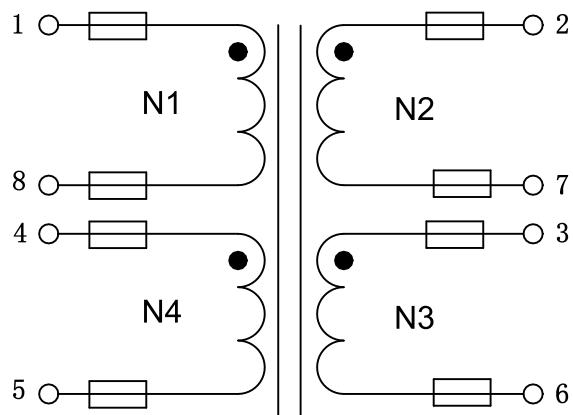


尺寸: (mm)

A	48.5±1.0
B	29.5±1.0
C	47.5±1.0
D	3.8±0.4
E	Ø1.3±0.15
F	Ø1.8±0.2
G	Ø2.5±0.1
H	12.5±0.5
I	15.0±0.5
J	25.0±0.5

Unless otherwise specified all tolerances are:±0.25 in mm

### SCHEMATICS



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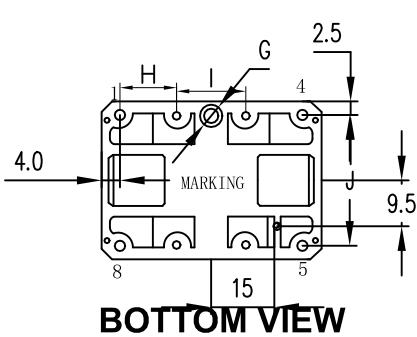
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



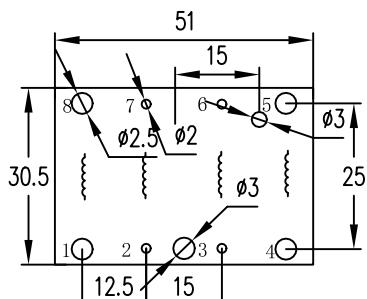
### Electrical Specifications @25°C

Part Number	Turns (20KHz, 1V)	OCL (mH MIN) @100KHz, 1V	OCL (μH MAX) @100KHz, 1V						DCR (mΩ MAX)	HI-POT	IR	
	1-8:2-7:3-6:4-5	1-8=2-7=4-5=3-6 -L2-7   -L3-6   -L4-5   -L3-6   -L4-5   -L4-5	L1-8   L1-8   L1-8   L2-7   L2-7   L3-6	L1-8   L1-8   L1-8   L2-7   L2-7   L3-6	L2-7   L2-7   L2-7   L3-6   L4-5   -L4-5	L3-6   L3-6   L3-6   L4-5   L4-5   L4-5	1-8=4-5   2-7=3-6	coil-coil	coil-coil			
CMBA4015DG272U	9:9:9:9±3%	2.7	60						5.7	9.2	1500VAC 1mA 60S	500VDC 100MΩ 5S

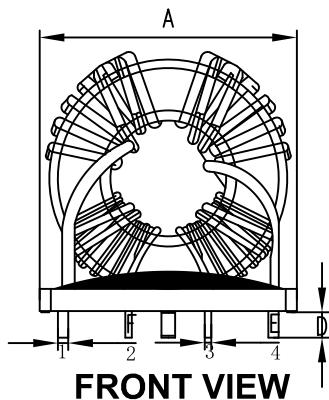
### MECHANICAL



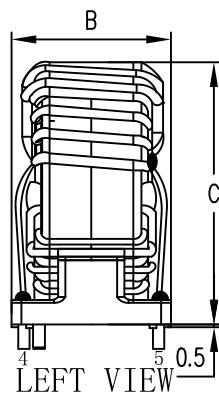
BOTTOM VIEW



PCB Layout (TOP)



FRONT VIEW



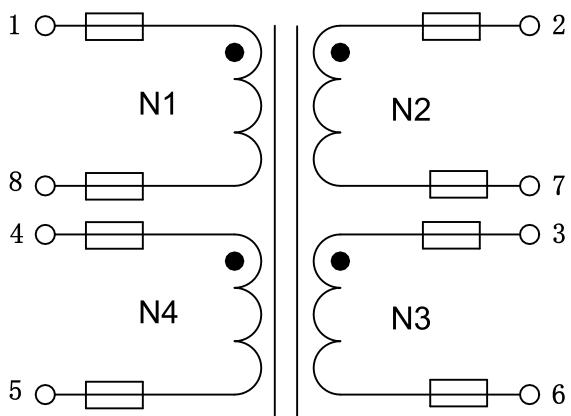
LEFT VIEW

尺寸: (mm)

A	48.5±1.0
B	29.5±1.0
◇C	47.5±1.0
D	3.8±0.4
E	Ø1.3±0.15
F	Ø1.8±0.2
G	Ø2.5±0.2
H	12.5±0.5
I	15.0±0.5
J	25.0±0.5

Unless otherwise specified all tolerances are: ±0.25 in mm

### SCHEMATICS



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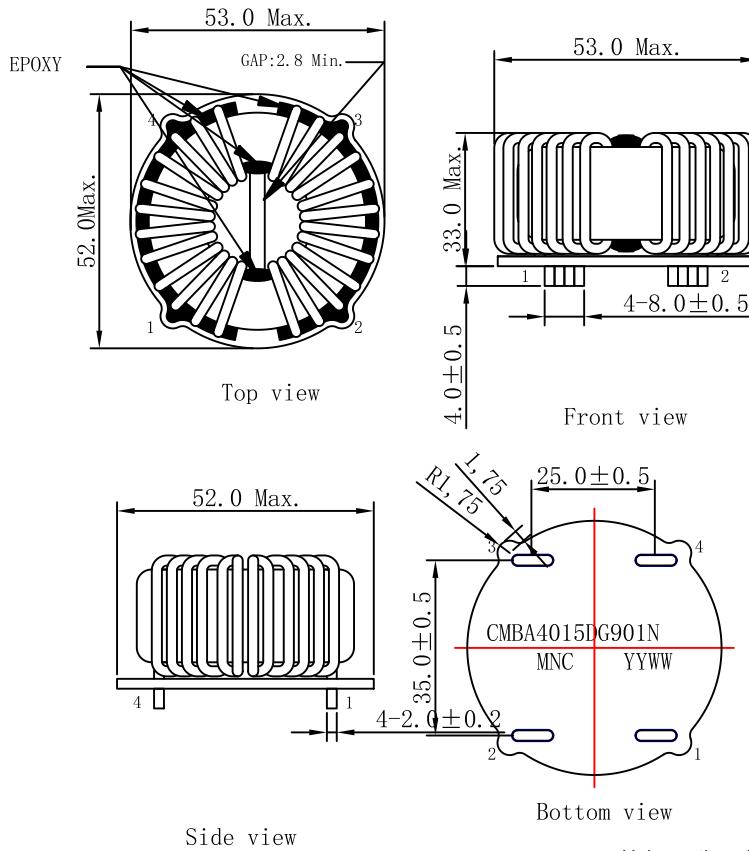
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- RoHS Compliant.
- Termination finished:TIN.
- Operating Temperature Range: -40°C TO 125°C(including coil soft temperature rise)
- Storage temperature range: -40°C TO 125°C



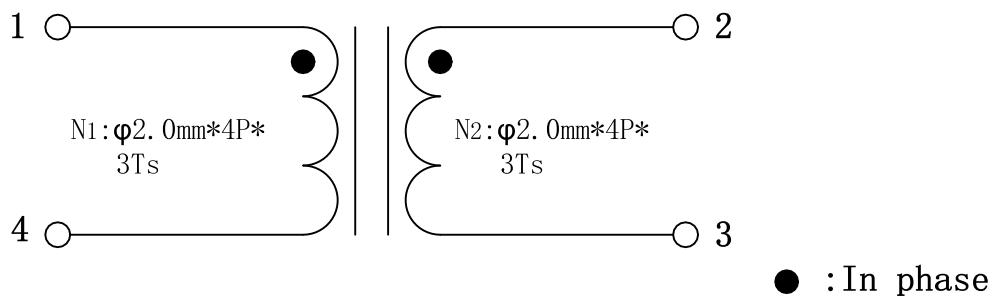
Part Number	Electrical Specifications @ 25°C							
	L(uH)		Lk(uH)	Turns Ratio	DCR(mΩ)		HI-POT	IR
	@1kHz/1V	@1kHz/1V	@20kHz/1.0V	@20°C		AC1.2kV/50Hz/1mA/60S	500V/60S	
CMBA4015DG901N	1-4	2-3	1-4 (2 and 3 are shorted)	N1:N2	1-4	2-3	N1-N2	N1-N2
	900+50%/-30%		0.5Min.	1:1		0.6 Max.	No breakdown, no arc	1000MΩ Min.

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

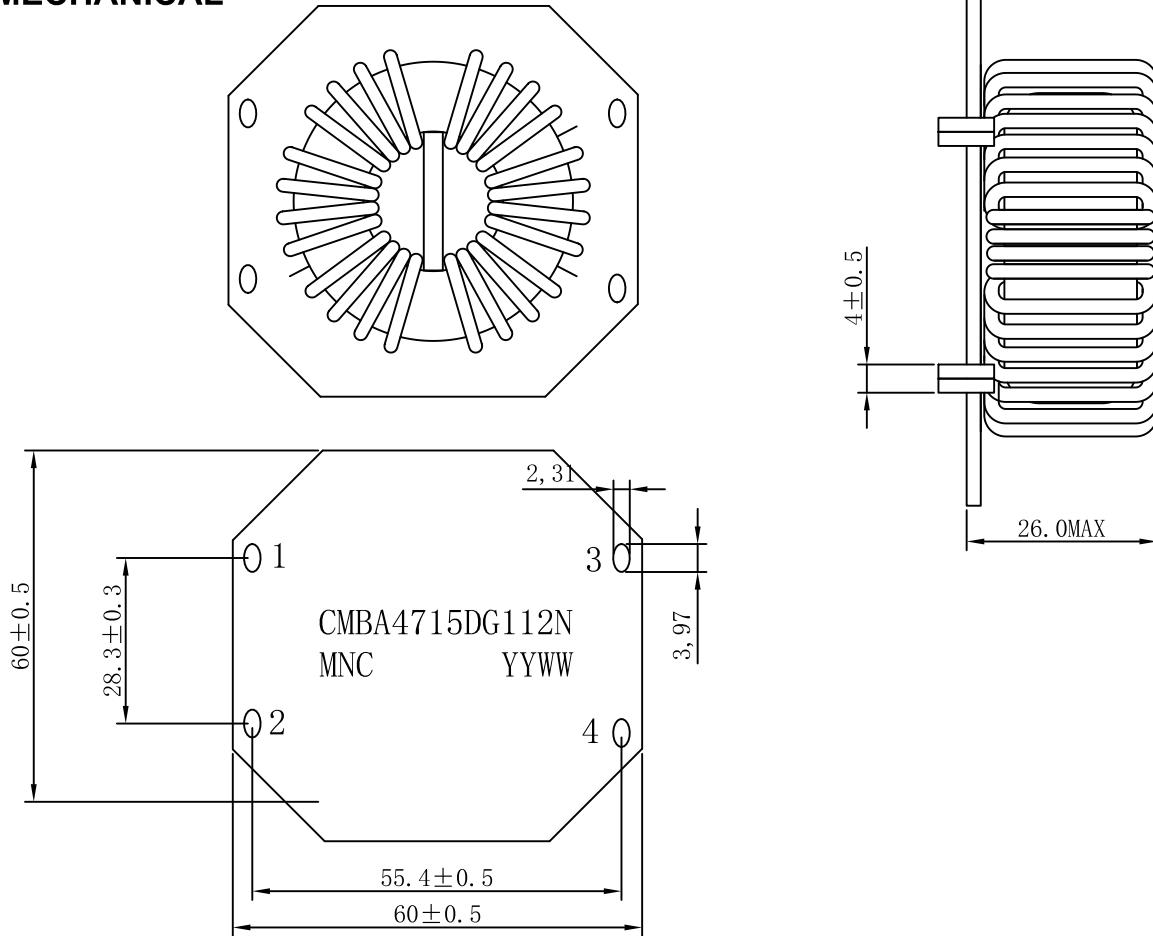


- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



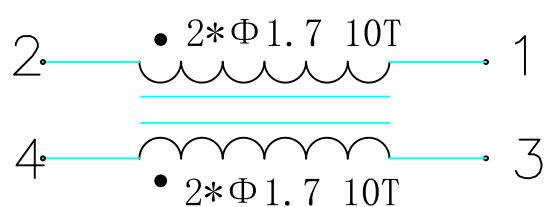
Electrical Specifications @25°C					
Part Number	Turns (20KHz, 1V)	OCL (mH) @10KHz, 0.25V	Lk ( μ H MAX) @10KHz, 0.25V	抗电强度	Z (1V)
	N1:N2	1-2=3-4	2-4 (short 1-3)	(1-2)~(3-4)	2, 4-1, 3
CMBA4715DG112N	10:10±3%	1. 16±30%	50	3KVAC 1mA 60S	100KHz TBD 1MHz TBD

## MECHANICAL



Unless otherwise specified all tolerances are: $\pm 0.25$  in mm

## SCHEMATICS



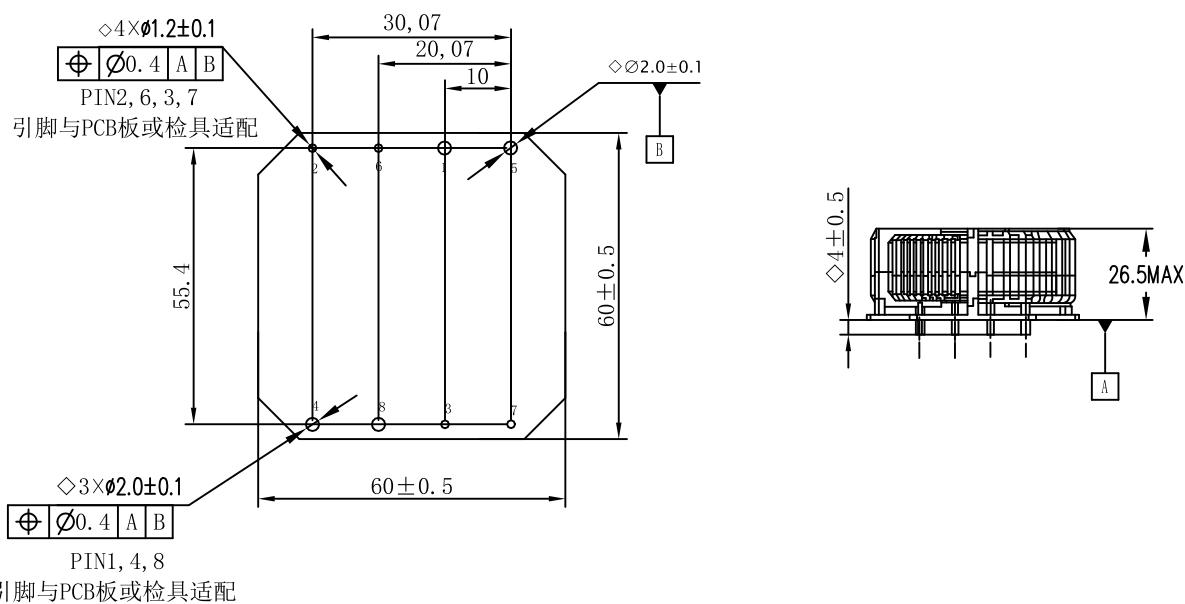
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



### Electrical Specifications @25°C

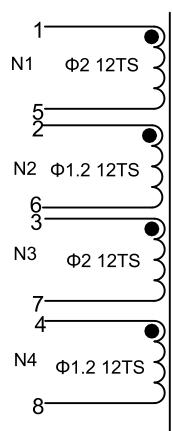
Part Number	Turns (20KHz, 1V)	OCL (mH) @10KHz, 0.25V	Lk ( μ H MAX) @100KHz, 1V			抗电强度	Z(1V)
	N1:N2:N3:N4	1-5=2-6=3-7=4-8	5-6 (short 1-2)	5-6 (short 1-3)	5-6 (short 1-4)		
CMBA4715DG162NA	12:12:12:12±3%	1. 67±30%		50		3KVAC 1mA 60S	100KHz 500 Ω MIN      1MHz 1. 35K Ω MIN

### MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

### SCHEMATICS

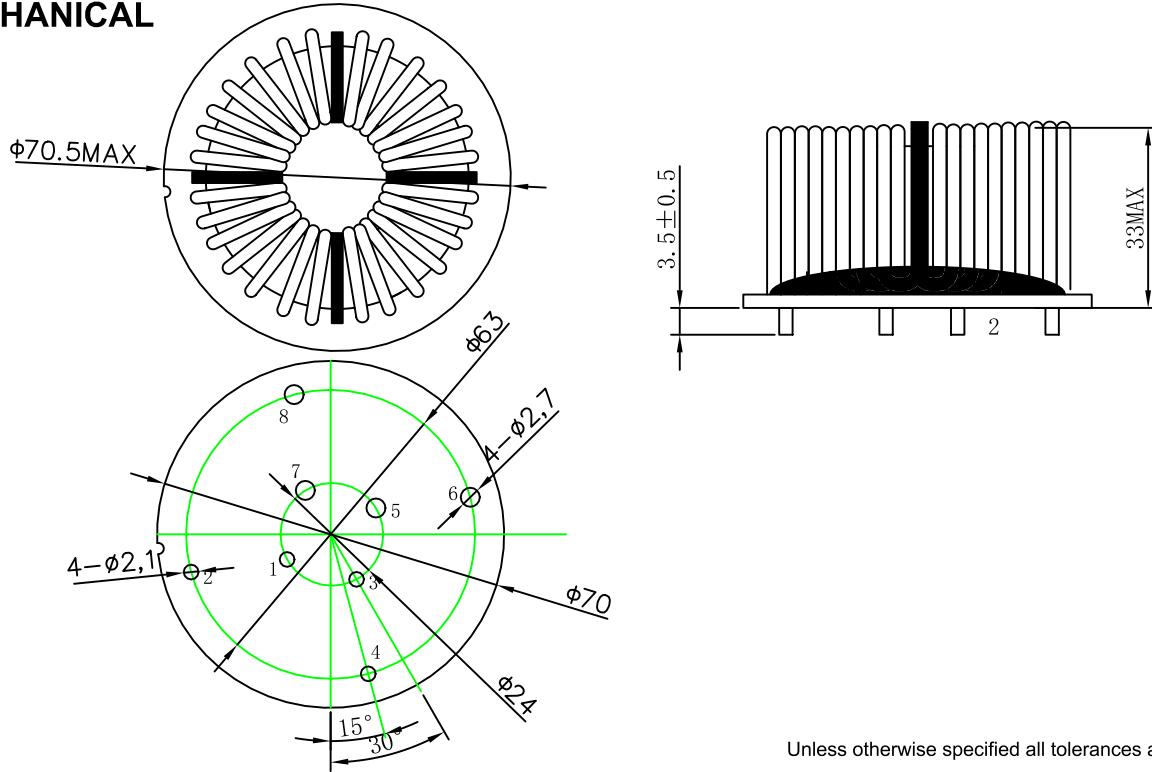


- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.

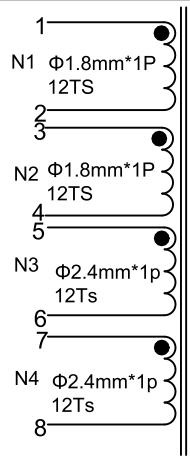


Electrical Specifications @25°C					
Part Number	Turns (20KHz, 1V)	OCL (mH MIN) @10KHz, 1V	IR	HI-POT	
	N1:N2:N3:N4	1-2=4-3=5-6=7-8	COIL-COIL	CORE-COIL	COIL-COIL
CMBA5015DG502U	12:12:12:12±3%	5	500VDC 100MΩ MIN	1500VAC 1mA 60S	2000VAC 1mA 60S

### MECHANICAL



### SCHEMATICS

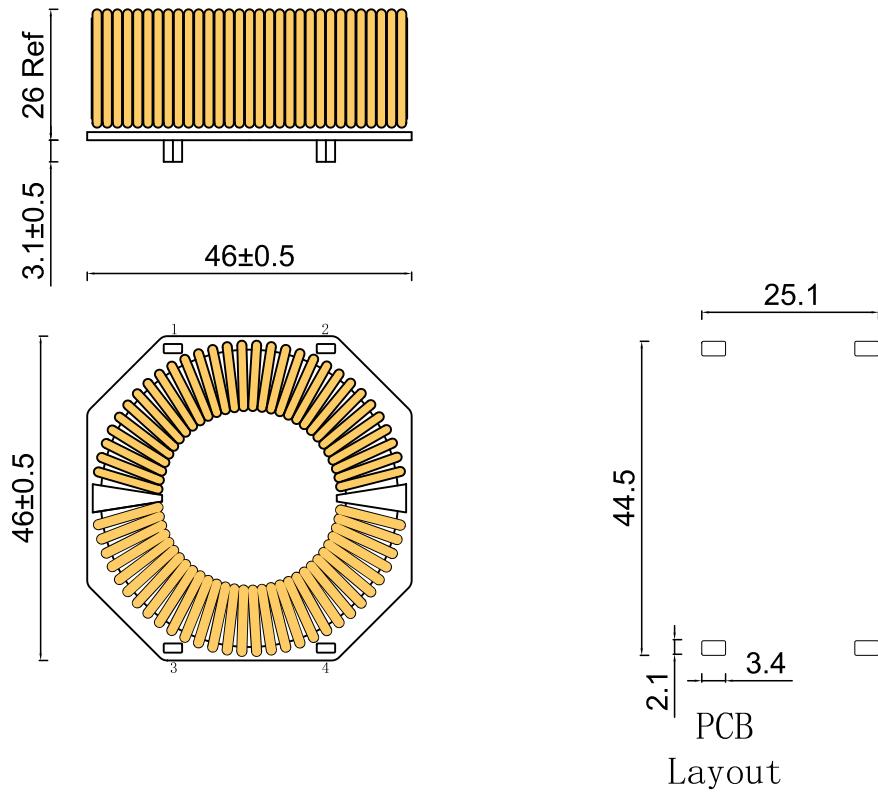


- RoHS Compliant (RoHS6)
- IEC60950 Compliancy
- Operating temperature range: -40°C to +125°C (including self-temperature rise)
- AEC-Q200 to be qualified



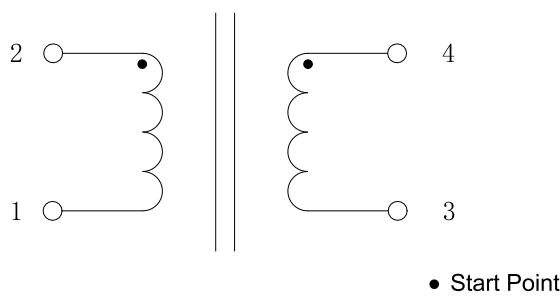
Electrical Specifications @25°C					
Part Number	OCL(μH) @100kHz,1V	Lk(μH) @100kHz,1V	Impedance(kΩ) 100kHz,1V	Impedance(kΩ) 1MHz,1V	Hi-POT
	2-1/4-3	2-4 (1, 3 short)	2,4-1,3	2,4-1,3	2 to 4
CMBA5519DG452U	4500 Min	50 Max	3 Min	5 Min	3000Vac , 1mA, 50/60Hz,60s

## MECHANICAL

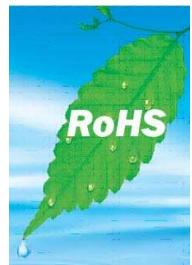


Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

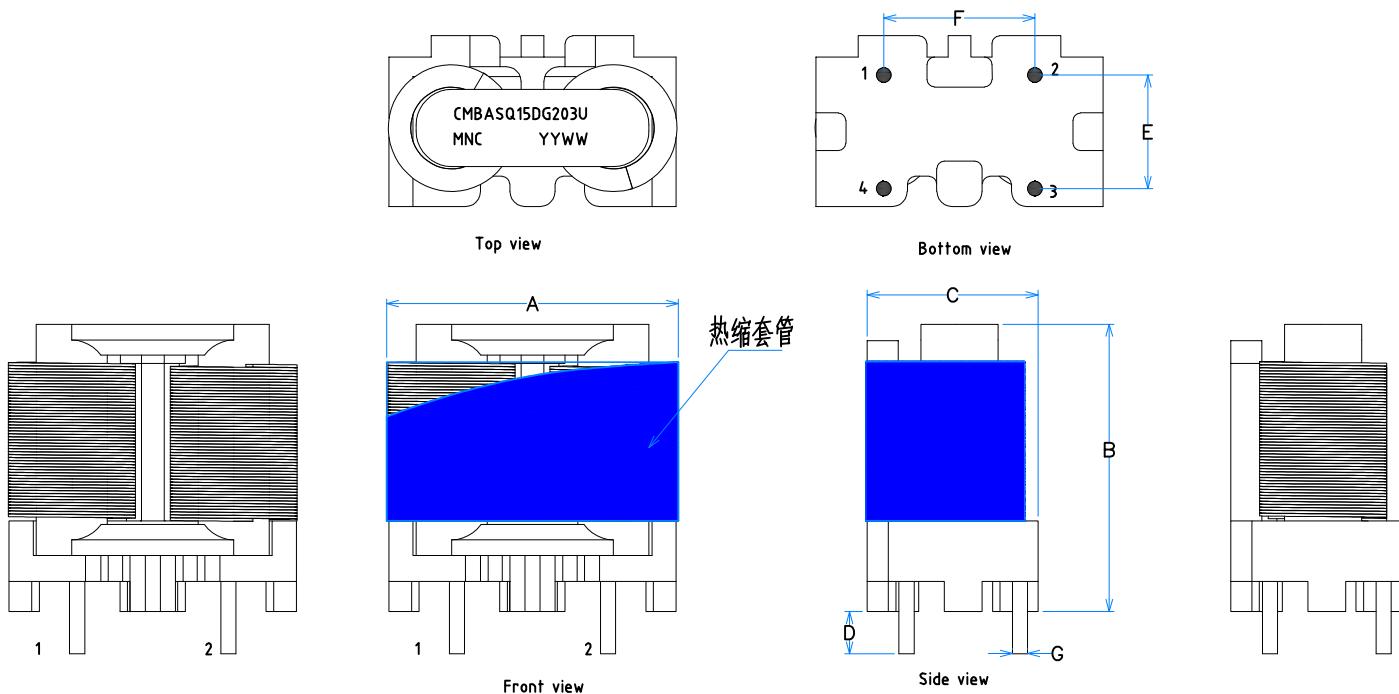


- RoHS Compliant (RoHS6).
- IEC62368-1 Compliant.
- Operating temperature range: -40°C to +105°C (including self-temperature rise)
- AEC-Q200 to be qualified.



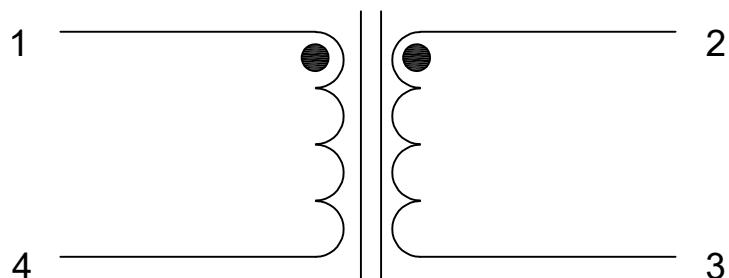
Electrical Specifications @25°C						
Part Number	Turns Ratio @20KHz,1V	OCL (mH Min) @10KHz,1V		DCR (mΩ Max)		HI-POT (VAC,2mA,3Sec)
	1:4:2:3	1:4	2:3	1:4	2:3	
CMBASQ15DG203U	1:1±5%	20	20	160	160	1500

### MECHANICAL (mm)



A	B	C	D	E	F	G
22.5 MAX	18.2 MAX	12.5 MAX	2.8±0.3	7.5±0.5	10±0.5	0.7±0.1

### SCHEMATICS

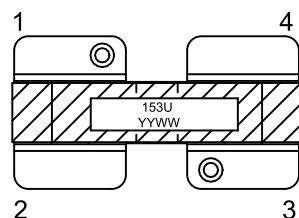


- RoHS Compliant.
- IEC60950 Compatible.
- Termination finished: Sn-0.7Cu.
- Operating temperature range : -40°C to +125°C.
- Rated current: 240mA causes 40°C temp rise from ambient.

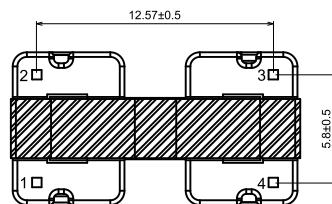


Electrical Specifications @ 25°C					
Part Number	OCL(mH MIN) @10kHz,0.1V	Lk(mH MIN) @100kHz,0.1V	Turns Ratio @20kHz/1.0V	DCR(Ω) @20°C	HI-POT
	1-2=4-3	1-4 (shorted Pin2+3)	1-2;3-4	1-2=4-3	Pin1-Pin4
CMEE11DG153U	15.6	2.5	1:1±3%	6.3±10%	1.5kV AC 1mA,60S

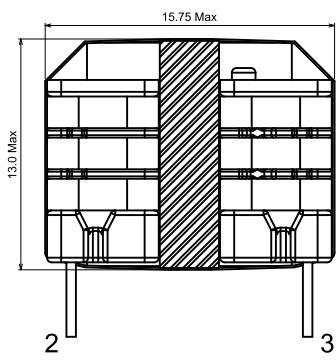
## MECHANICAL



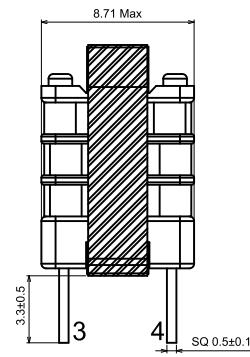
TOP VIEW



BOTTOM VIEW



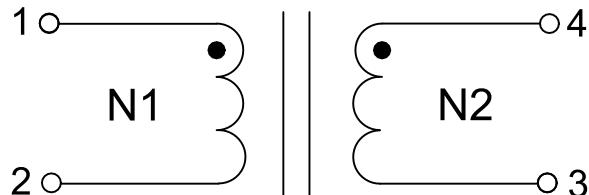
FRONT VIEW



SIDE VIEW

Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

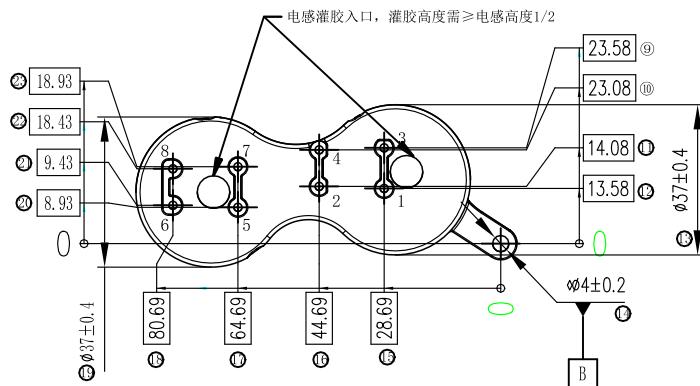
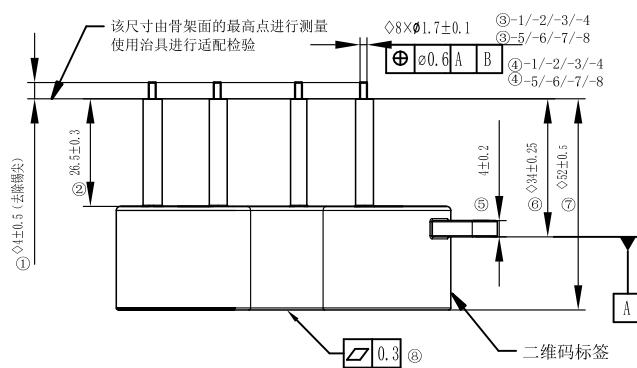


- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



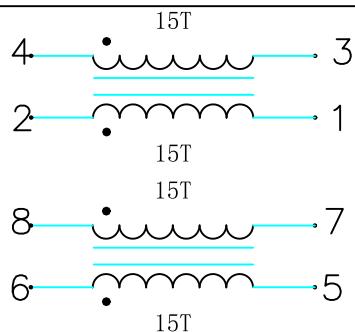
Electrical Specifications @25°C				
Part Number	Turns (100KHz, 1V)	OCL (mH MIN) @100KHz, 0.1V	DCR (mΩ MAX)	HI-POT
1-2:3-4 (5-6:7-8)	1-2=4-3 (5-6=7-8)	1-2=3-4=5-6=7-8	1-2:3-4 (5-6:7-8)	
MGHA-0020G	1:1±3%	3.7	7.5	2000VAC 1mA 60S    2400VAC 1mA 60S

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



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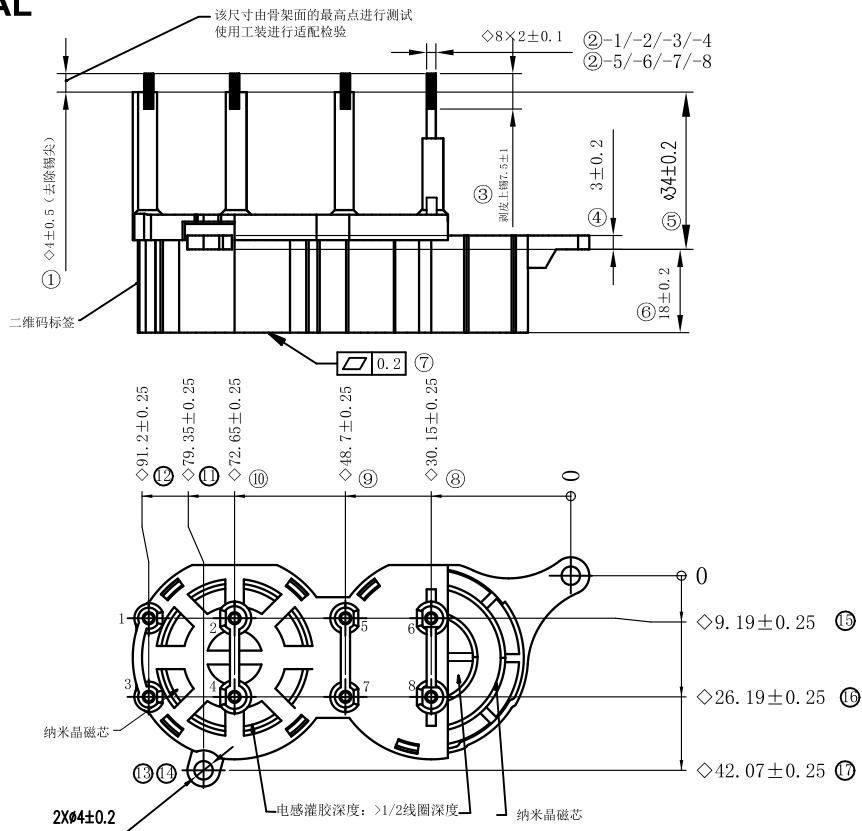
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



### Electrical Specifications @25°C

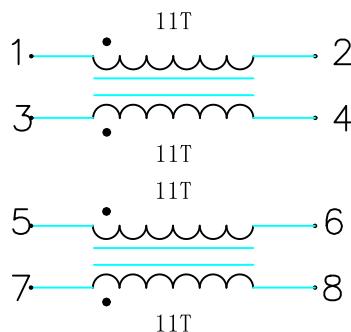
Part Number	Turns (20KHz, 1V)	OCL (mH) @10KHz, 0.1V	Z (KΩ MIN)				HI-POT	
	1-2:3-4 (5-6:7-8)	1-2=4-3 (5-6=7-8)	1-2:3-4:5-6:7-8				1-2:3-4 (5-6:7-8)	
MGHA-0021G	11:11±3%	8±30%	10KHz 0.1V 0.2KΩ	100KHz 0.1V 1.5KΩ	500KHz 0.1V 3.0KΩ	1MHz 0.1V 4.0KΩ	1500VAC 1mA 60S	1800VAC 1mA 3S

## MECHANICAL

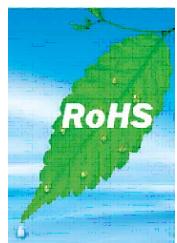


Unless otherwise specified all tolerances are:  $\pm 0.25$  in mm

## SCHEMATICS



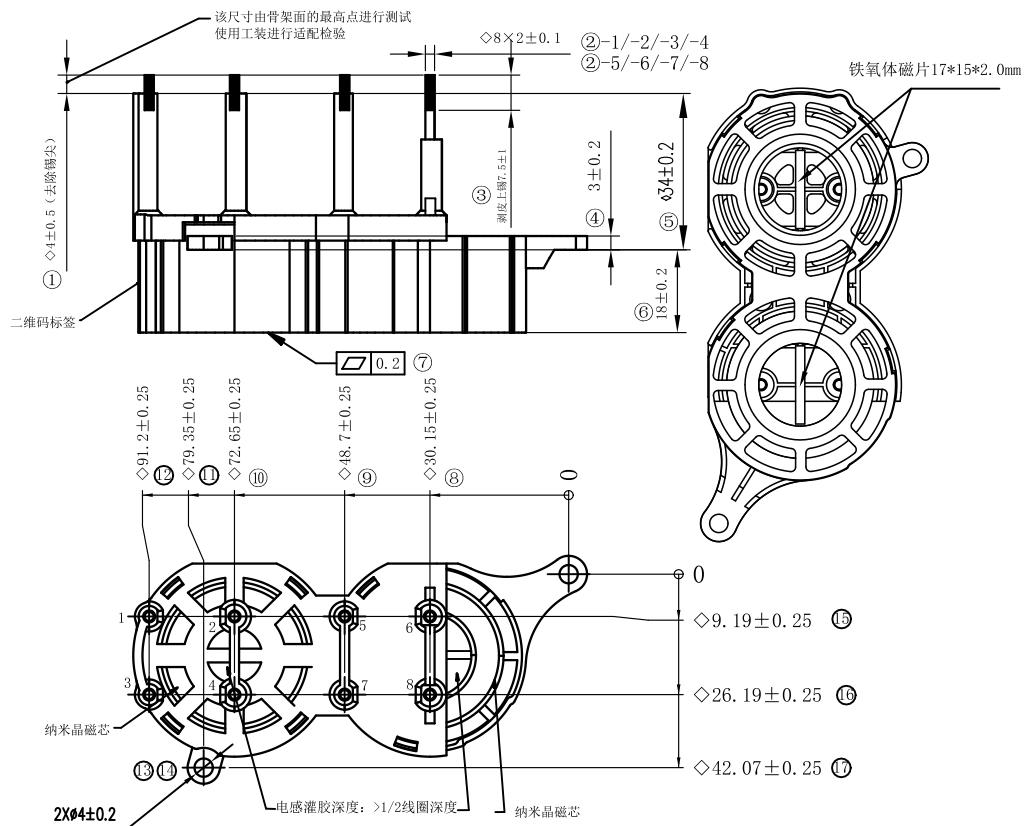
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



### Electrical Specifications @25°C

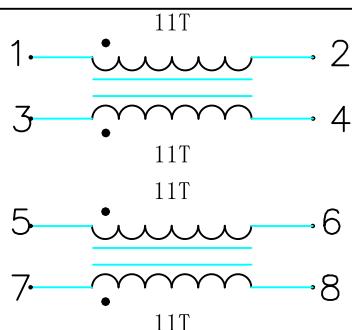
Part Number	Turns (20KHz, 1V)	OCL (mH) @10KHz, 0.1V	LK (μH MIN) @10KHz, 0.1V		Z (kΩ MIN)				HI-POT	
	1-2:3-4(5-6:7-8)	1-2=4-3(5-6=7-8)	1-2	5-6 (SHORT 3-4)	10KHz 0.1V 0.2KΩ	100KHz 0.1V 1.5KΩ	500KHz 0.1V 3.0KΩ	1MHz 0.1V 4.0KΩ	1500VAC 1mA 60S	1800VAC 1mA 3S
MGHA-0022G	11:11±3%	8±30%		7.0						

### MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

### SCHEMATICS



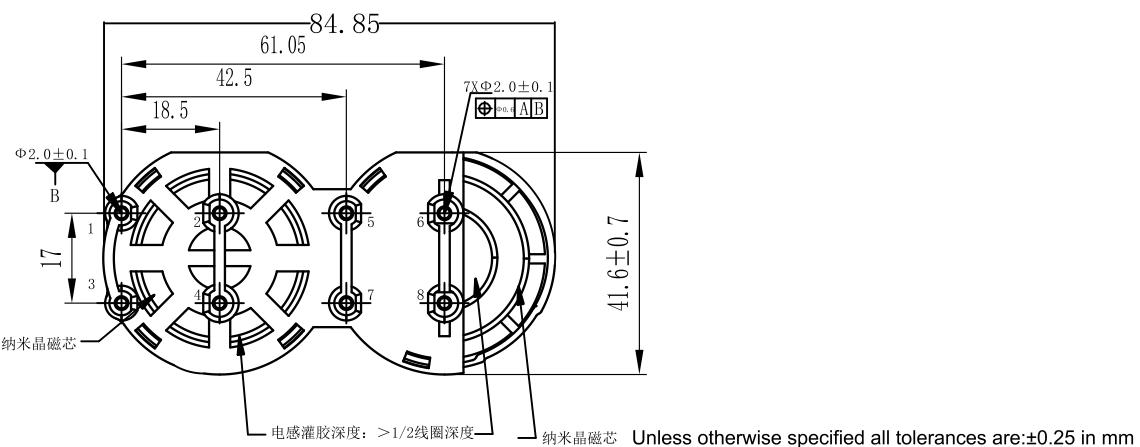
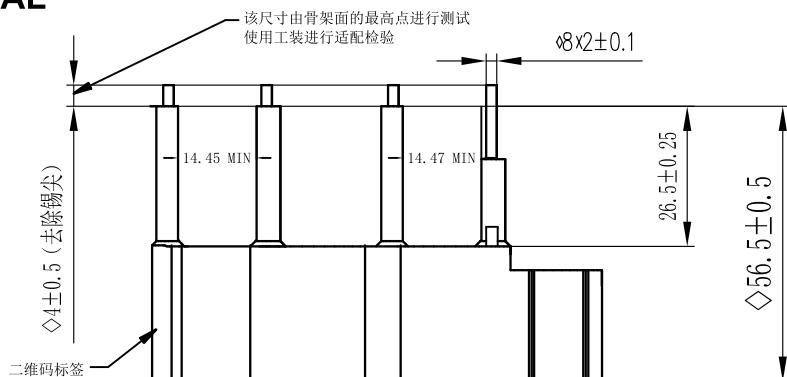
- RoHS Compliant.
- IEC60950 Compatible.
- AEC-Q200 +125°C(Grade1) to be qualified
- Operating temperature range : -40°C to +125°C.
- Storage temperature range(Including self temperature rise) : -40°C to +125°C.



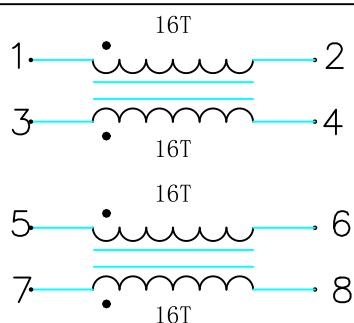
### Electrical Specifications @25°C

Part Number	Turns	OCL (mH) @10KHz, 0.1V	DCR (mΩ MAX)	HI-POT	
	1-2:3-4:5-6:7-8	1-2=4-3(5-6=7-8)	1-2=3-4	N1-N2	N3-N4
MGHA-0108G	16:16:16:16±3%	5.5±30%	4.5	AC1.5KV 1mA 60Sec 50HZ	AC1.8KV 1mA 3Sec 50HZ

## MECHANICAL



## SCHEMATICS



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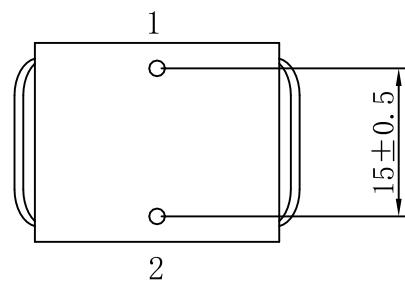
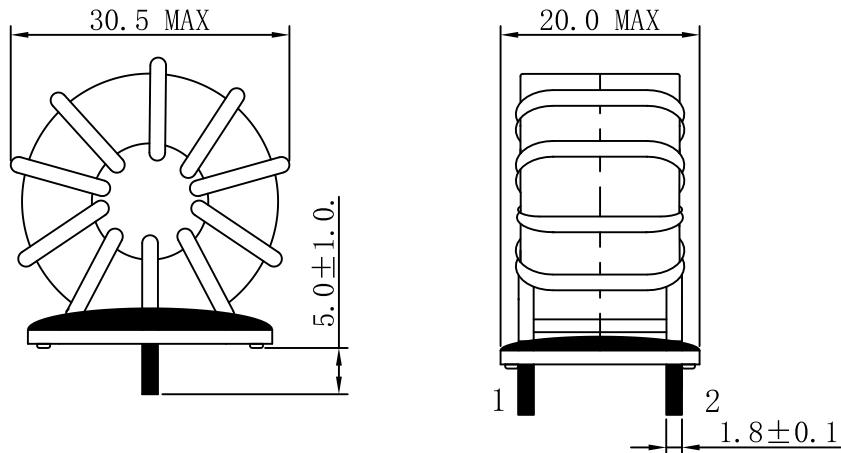
[www.mnc-tek.com](http://www.mnc-tek.com)

- RoHS Compliant (RoHS6).
- IEC60950 Compliancy.
- Termination finished: Sn-0.7Cu.
- AEC-Q200 Qualifide
- Operating temperature range: -40°C to +125°C.
- Storage temperature range: -40°C to +125°C.



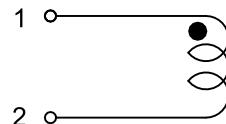
Part Number	TurnsRatio( $\pm 3\%$ )	OCL(mH Min) @10KHz,1V	OCL(mH Min) @100KHz,1V	DCR (mΩ Max)
	1-2	1-2	1-2	1-2
MTBA2008DG701U	10	0.7	0.5	3.7

## MECHANICAL



Unless otherwise specified all tolerances are:  $\pm 0.25$  in mm

## SCHEMATICS



• Start Point

## Dongguan MENTECH Optical & Magnetic Co., Ltd.



(0086)-769-86921000



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