



● **FEATURE**

1. Dual-winding configuration makes 1 unit suffice for one port
2. An excellent TPA/TPB impedance balance is ensured due to winding on a single core

● **APPLICATION**

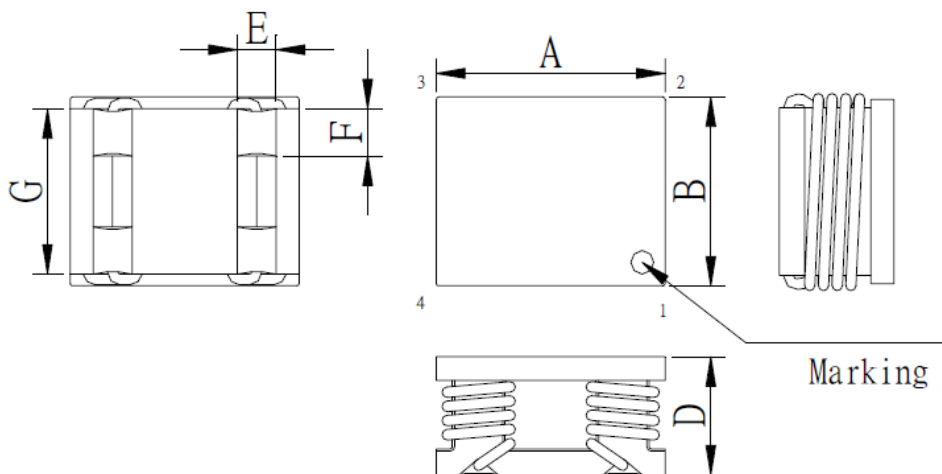
1. DC-DC converter of portable equipment
2. Notebook, Server
3. LCD TV and others



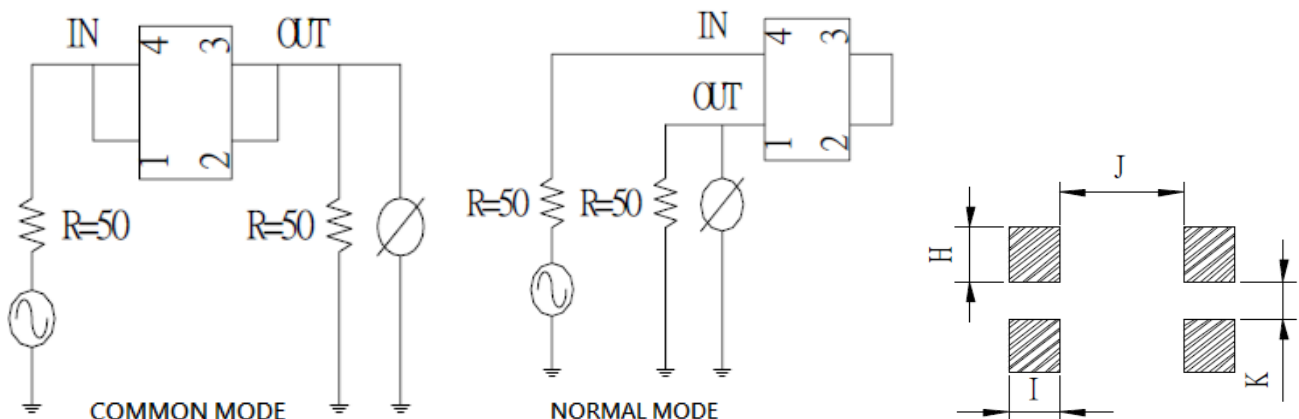
● **ORDERING INFORMATION**

CMS 7.5*6*3	-4.5Ts
PN	Turns

● **SHAPE AND DIMENSION**



● **SCHEMATICS AND LAND PATTERNS(mm)**





●SPECIFICATION

Dimension in mm

TYPE	A	B	D	E	F	G	H	I	J	K
CMS 7.5*6*3-4.5Ts	7.50±0.20	6.00±0.20	3.00±0.20	1.50	1.50	5.40	1.90	2.40	1.70	1.90
CMS 10*8*5-4.5Ts	10.0±0.20	8.00±0.20	5.00±0.20	1.80	1.50	7.00	2.40	2.10	4.20	2.60
CMS 10*8*5-5.5Ts	10.0±0.20	8.00±0.20	5.00±0.20	1.80	1.50	7.00	2.40	2.10	4.20	2.60

Note1. Measurement ambient temperature of Impedance, DCR and IDC : at 25°C

Note2. Test equipment: HP4291A

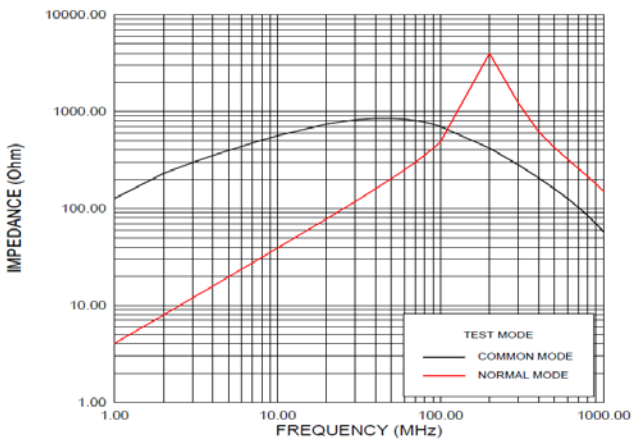
Note3. This specification might be changed without notice due to under developing and improving.

●ELECTRICAL CHARACTERISTICS

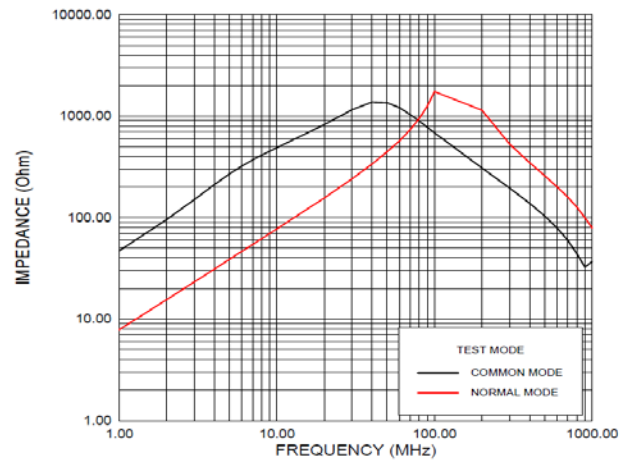
Electrical Characteristics	Frequency	TYPE		
		CMS 7.5*6*3-4.5Ts	CMS 10*8*5-4.5Ts	CMS 10*8*5-5.5Ts
Common mode	100MHz	700 Ω ± 25%	860 Ω ± 25%	680 Ω ± 25%
	400MHz	200 Ω ± 25%	180 Ω ± 25%	140 Ω ± 25%
Normal mode	100MHz	480 Ω ± 25%	720 Ω ± 25%	1750 Ω ± 25%
	400MHz	620 Ω ± 25%	620 Ω ± 25%	350 Ω ± 25%
DC Resistance		50mΩMax	45mΩMax	50mΩMax

●ELECTRICAL CURVE

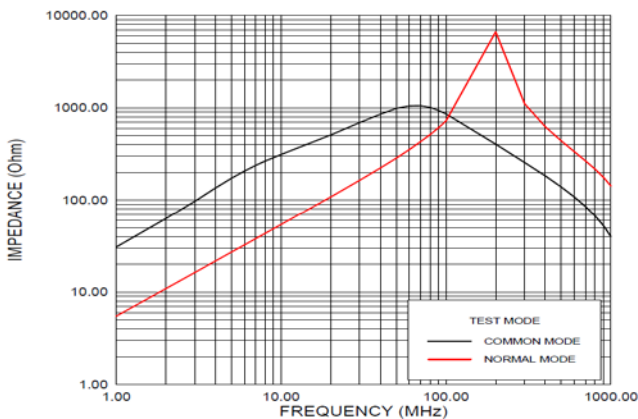
CMS 7.5*6*3-4.5Ts



CMS 10*8*5-5.5Ts



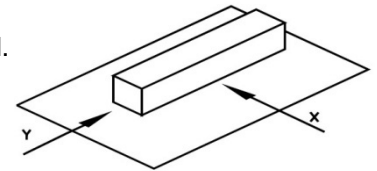
CMS 10*8*5-4.5Ts



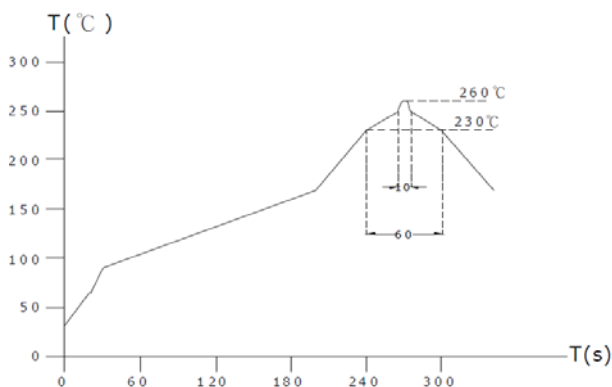


●GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 85°C (Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil.
Push in two directions of X.Y withstanding at below conditions.
Terminal should not peel off. (refer to figure at right) 0.5kg
4. Insulating resistance: Over 100MΩ at 100V D.C. between coil and core.
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
6. Temperature characteristics: Inductance coefficient $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$ (-25~+80°C).
7. Humidity characteristics(Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in 90~95% relative humidity at $40 \pm 2^{\circ}\text{C}$ and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within $\pm 5\%$, after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within $\pm 5\%$, after being dropped once with 981m/s² (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260°C, 10 seconds.
11. Storage environment
Storage condition:
Temperature Range: 10°C ~ 35°C (Generally: 21°C ~ 31°C)
Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%)
Transportation condition:
Temperature Range: -35°C ~ 85°C, Humidity Range: 50% ~ 95% RH
12. Use components within 6 months. If 6 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:



Lead - free heat endurance test



Lead-free the recommended reflow condition

