Winding Wound Common Mode THT Choke-KCMB Series

Features

- Broadband filterring due to low capacitance winding technique;
- High suppression of asymmetrical interferences also at low frequency range;
- Very compact design;
- Highest possible rated current by small size;
- Flammability corresponding to UL 94 V-0;
- Certified according to IEC 60938-2;
- Operating temperature range -55℃～125℃(Including self - temperature rise;

Application

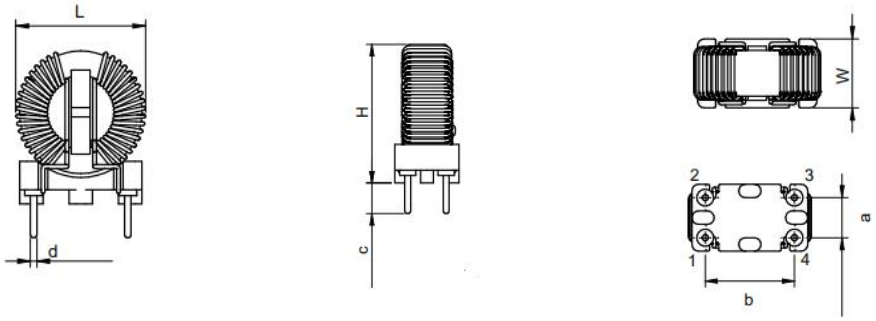
- Power line input and output filter.
- Filterring of devices without any ground connection.
- Suppression of radio interferences in motors.
- Suppression of common mode noice.

Product Identification

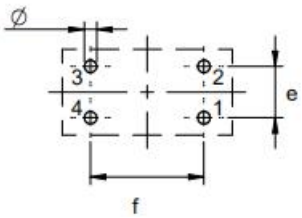
KCMB ① 1678 ② - 102 ③ N ④

① Series name: Wire Wound Common Mode THT Choke
② Chip Size: 16×7.8×18mm
③ Inductance: 1000 uH
④ Tolerance: ±30%

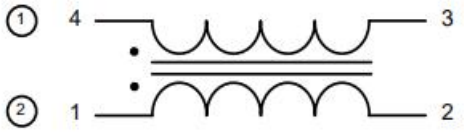
SHAPE AND DIMENSIONS



Recommended Layout:



Schematic:



Series	Mechanical Dimensions(mm)							Land Pattern(mm)		
	LMax	WMax	HMax	a	b	c	dTyp	e	f	Ø
KCMB1678	16	7.8	18	4.5±0.5	10±0.5	2.5±0.5	0.7	4.5	10.0	0.9

SPECIFICATIONS

KCMB 1678 Series

Part Number	L(μH)	IR(A)	DCR(mΩ)	UR(Vac)	UT(Vac)	Core Material	Test Condition
KCMB1678-102N	1000	2.0	45	250	1500	Mn-Zn	10KHz/0.25V
KCMB1678-402N	4000	1.5	140	250	1500	Mn-Zn	10KHz/0.25V
KCMB1678-502N	5000	1.0	220	250	1500	Mn-Zn	10KHz/0.25V
KCMB1678-103N	10000	0.7	350	250	1500	Mn-Zn	10KHz/0.25V
KCMB1678-203N	20000	0.5	1000	250	1500	Mn-Zn	10KHz/0.25V
KCMB1678-393N	39000	0.3	3000	250	1500	Mn-Zn	10KHz/0.25V

L: Inductance; I_R: Rated Current; U_R: Rated Voltage; U_T: Insulation Test Voltage

TYPICAL ELECTRICAL CHARACTERISTICS

KCMB1678 eries