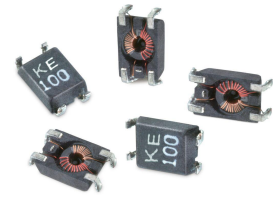


Features

- High current capability up to 400 mA, Low profile, only 3.3 mm.
- Ferrite toroidal core construction and class H copper wire.
- Flammability corresponding to UL 94 V-0.
- Meet RoHS compliant, Halogen free are available.
- Operating temperature: -40°C to +125°C.



Application

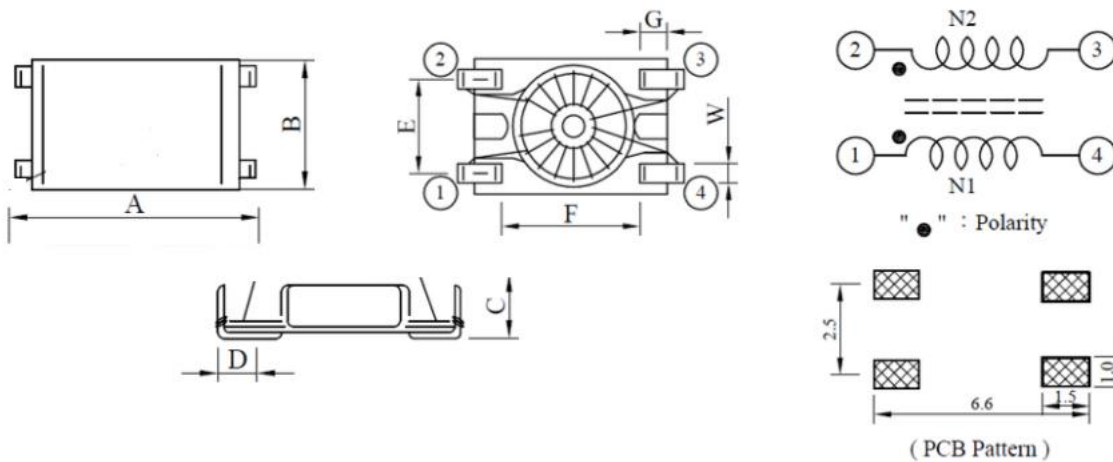
- Suppression of common mode noise
- Signal and sensor lines
- Power supply system

Product Identification

KCMCF 6040 100 I
 ① ② ③ ④

- ① Series name
- ② Size: 6.50×3.60×1.65mm
- ③ Inductance: 100μH
- ④ Tolerance: ±50%

SHAPE AND DIMENSIONS



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	W(mm)
KCMCF6040T	6.50 max.	3.60±0.15	1.65±0.15	0.90 min.	2.50±0.10	3.40±0.20	0.80 max	0.55±0.10

SPECIFICATIONS

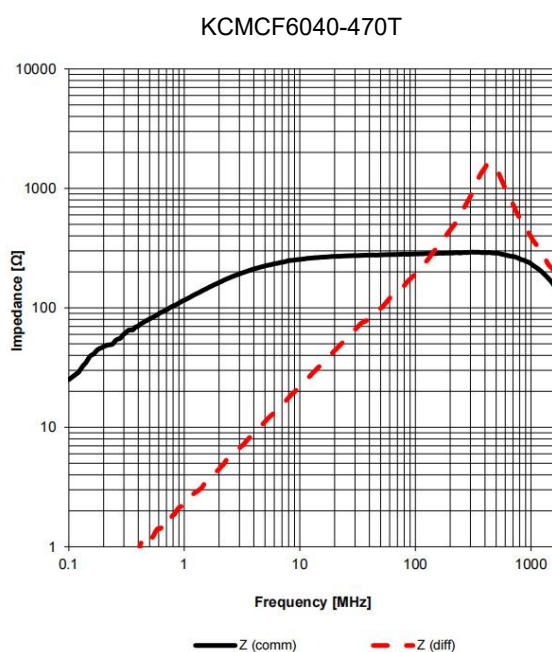
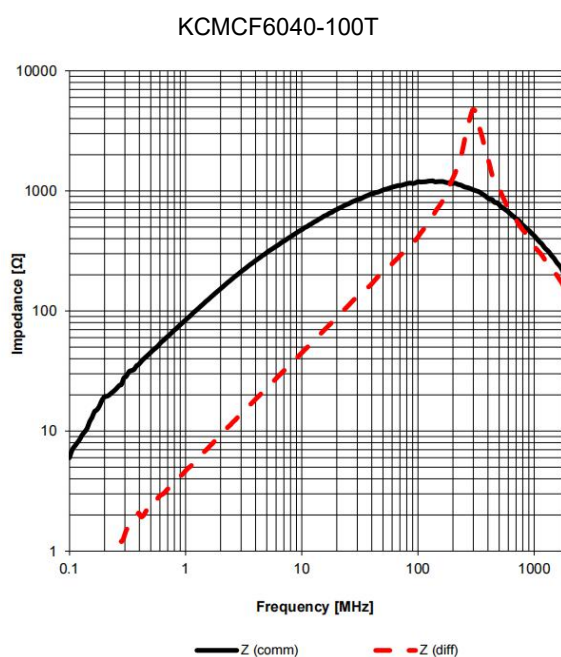
KCMCF6040T Series

Part Number	Inductance L0 (uH)	Impedance		Rated Current [mA] Max	DCR [(Ω)/line] Max
		Z _{max} [Ω]	F _{req.} =MHZ		
KCMCF6040-100T	10 $\pm$ 50%	1200	130	300	0.24
KCMCF6040-470T	47 $\pm$ 50%	300	150	300	0.16
KCMCF6040-510T	51 $\pm$ 50%	300	200	300	0.16
KCMCF6040-820T	82 $\pm$ 50%	440	100	300	0.20
KCMCF6040-101T	100 $\pm$ 50%	500	50	300	0.22
KCMCF6040-181T	180 $\pm$ 50%	1000	30	300	0.25
KCMCF6040-221T	220 $\pm$ 50%	1200	30	300	0.28
KCMCF6040-331T	330 $\pm$ 50%	2000	20	300	0.30

Note:

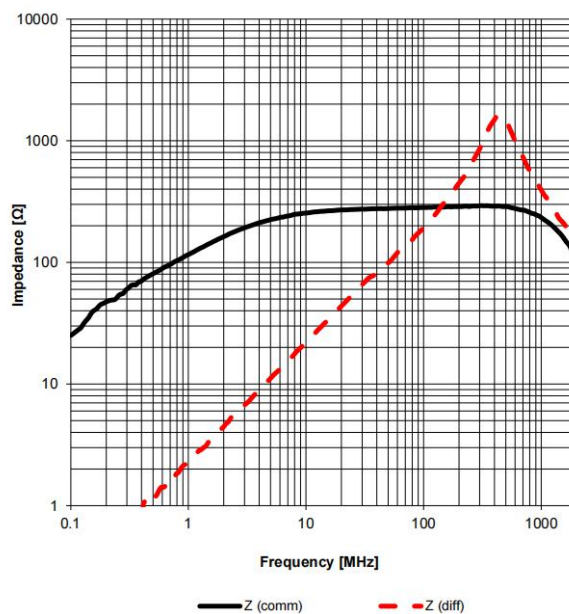
1. Test frequency : L/Q : 100KHz /1.0V;
2. All test data referenced to 25°C ambient.
3. Heat Rated Current (I_{rms}) will cause the coil temperature rise approximately Δt of 40°C.
4. Dielectric strength 250VDC max between line to line;
5. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. Rated voltage: 60VDC.

TYPICAL ELECTRICAL CHARACTERISTICS

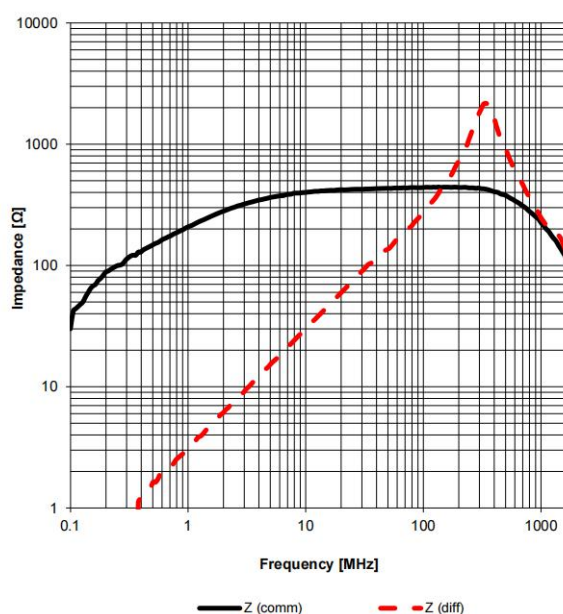


TYPICAL ELECTRICAL CHARACTERISTICS

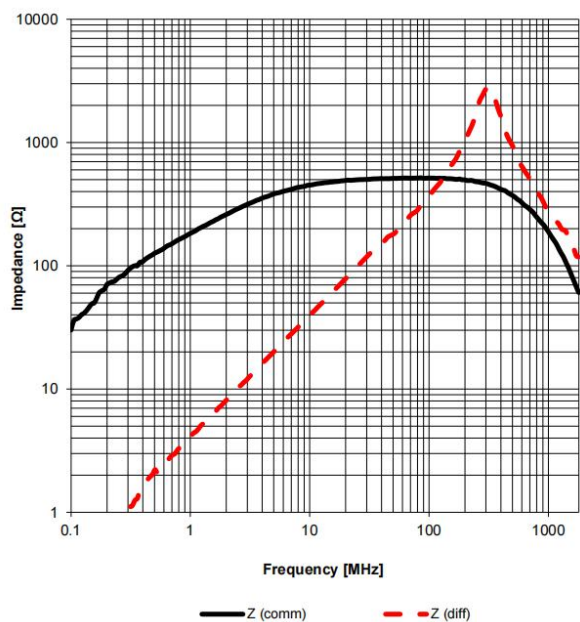
KCMCF6040-510T



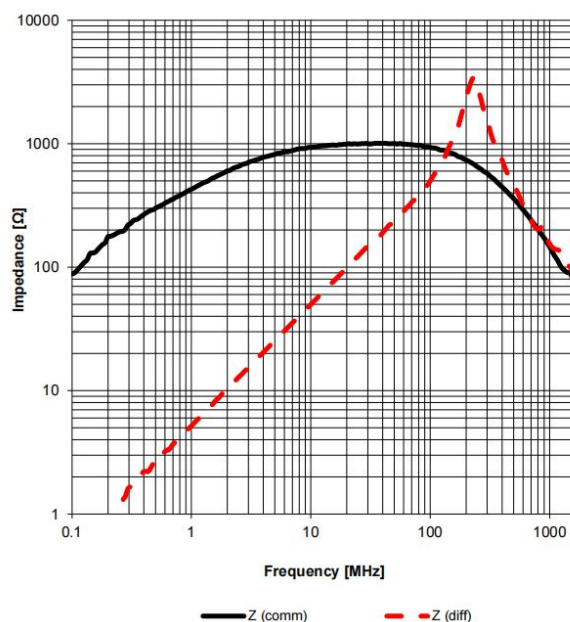
KCMCF6040-820T



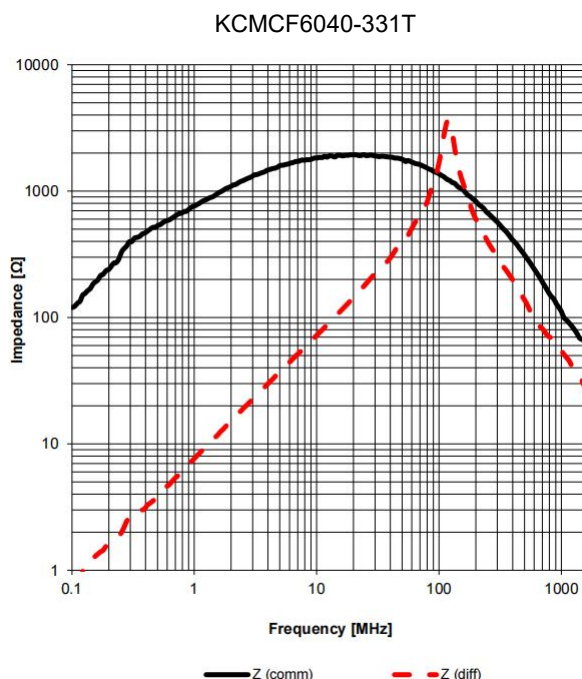
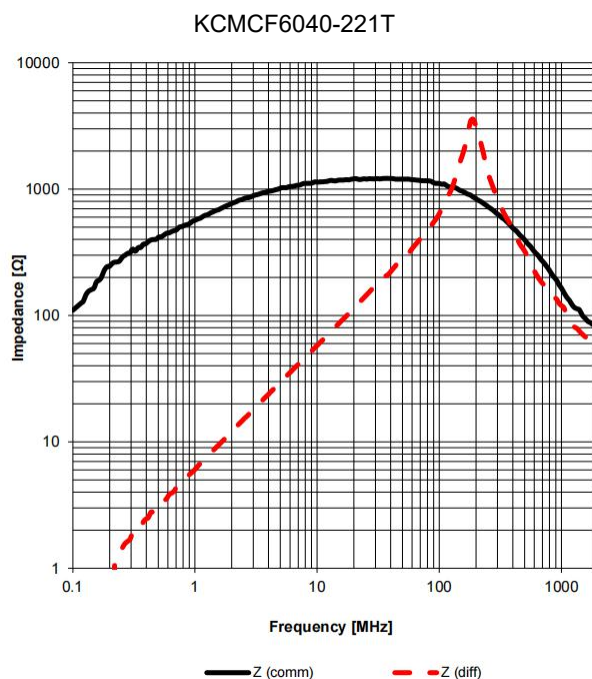
KCMCF6040-101T



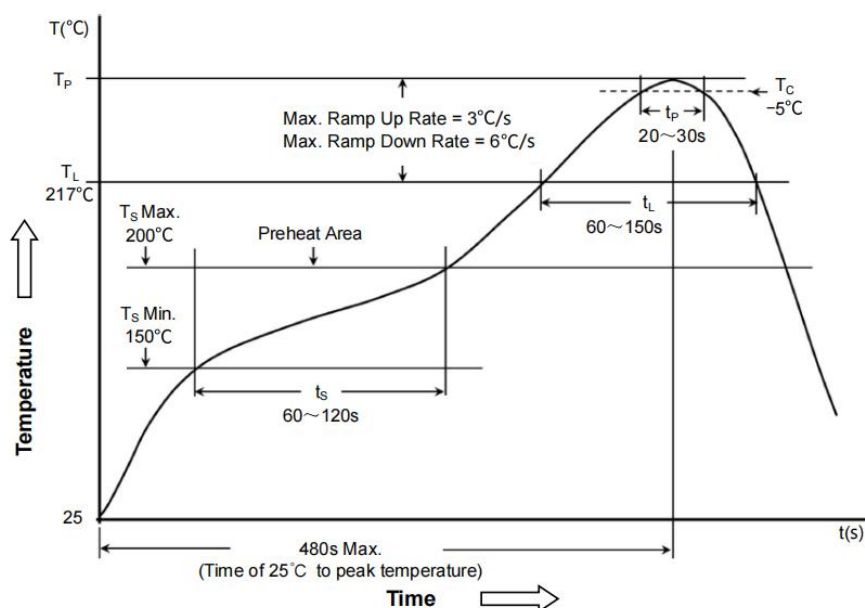
KCMCF6040-181T



TYPICAL ELECTRICAL CHARACTERISTICS



SOLDERING SPECIFICATION



	Package Thickness	Package Volume		
		<350 mm ³	350~2000 mm ³	>2000 mm ³
PB-Free Assembly	<1.6mm	260 °C	260 °C	260 °C
	1.6~2.5mm	260 °C	250 °C	245 °C
	≥2.5mm	250 °C	245 °C	245 °C

- Reflow is referred to standard IPC/JEDEC J-STD-020D

NOTICE OF USE

- Product in packing storage condition : temperature 5~40℃, RH<=70%;
- storage of KONEN Electronic products for longer than 12 months is not recommended, Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment;
- Do not keep products in unsuitable storage conditions, such as areas susceptible to high temperatures, high humidity, dust or corrosion;
- Always handle products with care;
- Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering;
- When this product will be used on a similar or new project to the original one, sometimes it might be unable to satisfy the specifications due to different condition of usage;
- This inductor itself does not have any protective function in abnormal condition, such as overload, short-circuit, open-circuit conditions, etc. Therefore, it shall be confirmed that there is no risk of smoke, fire, dielectric withstand voltage, insulation resistance, etc., or use in abnormal conditions protective devices or protection circuit in the end product;
- Hi-Pot test with higher voltage than spec value will damage insulating material and shorten its life;
- If using in potting compound, the magnet wire coating might be damaged, please consult with us;
- Refrain from rinsing coils. If necessary, please consult with us.