

Wire Wound Common Mode Line SMT Filter-KCMF Series

Features

- Common Mode Choke
- Ring core with the core materials of NiZn and MnZn
- Operating temperature: -40°C to $+85^{\circ}\text{C}$



Application

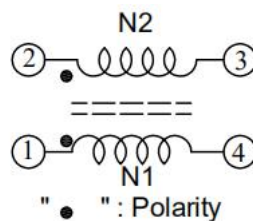
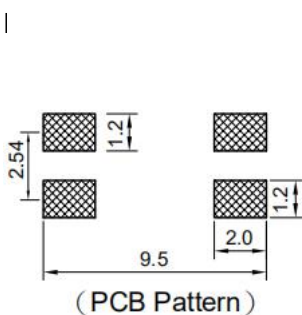
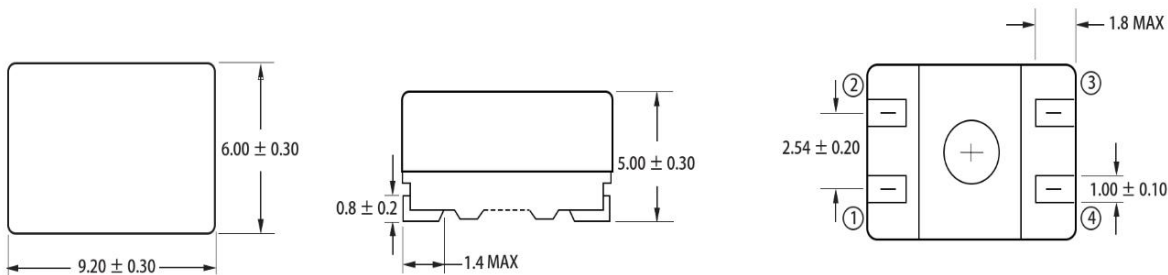
- CAN BUS
- Suppression for common mode noise
- Power supply systems

Product Identification

KCMF 9060 - 100 Y
 ① ② ③ ④

- ① Series name: Wire Wound Common Mode Line Filter
- ② Chip Size: 9.6x6.0x5.0mm
- ③ Inductance: 10uH
- ④ Tolerance: $\pm 30\%$ or $\pm 50\%$

SHAPE AND DIMENSIONS



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SPECIFICATIONS

KCMF9060 Series

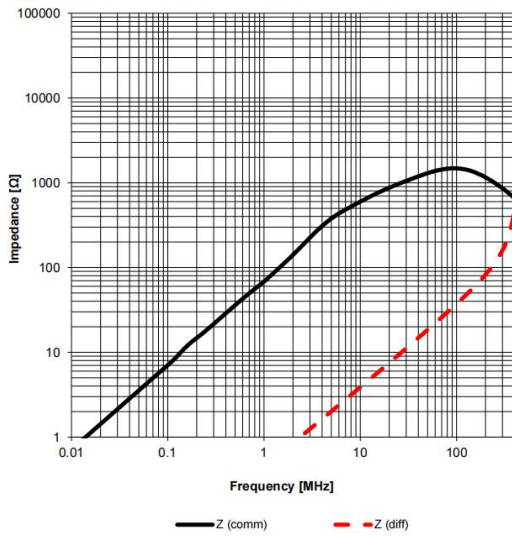
Part Number	Inductance (μH)	Test condition	DCR MAX (Ω)	IR (A)	Impedance min.(Ω)	Freq Range (MHz)
KCMF9060-100Y	10 \pm 30%	0.1V,1kHz	0.08	1.6	200	20 ~ 300
KCMF9060S*-100Y	10 \pm 30%	0.1V,1kHz	0.08	1.6	200	20 ~ 300
KCMF9060-250Y	25 \pm 30%	0.1V,1kHz	0.12	1.0	600	20 ~ 150
KCMF9060S*-250Y	25 \pm 30%	0.1V,1kHz	0.12	1.0	600	20 ~ 150
KCMF9060-400Y	40 \pm 30%	0.1V,1kHz	0.25	0.9	800	20 ~ 100
KCMF9060S*-400Y	40 \pm 30%	0.1V,1kHz	0.25	0.9	800	20 ~ 100
KCMF9060-510Y	51 \pm 30%	0.1V,1kHz	0.16	1.0	1500	20 ~ 100
KCMF9060S*-510Y	51 \pm 30%	0.1V,1kHz	0.16	1.0	1500	20 ~ 100
KCMF9060-251Y	250 \pm 50%	5mV,100kHz	0.13	1.2	600	3 ~20
KCMF9060-501Y	500 \pm 50%	5mV,100kHz	0.15	1.0	1000	1 ~20
KCMF9060-102Y	1000 \pm 50%	5mV,100kHz	0.31	0.8	1500	1 ~15
KCMF9060-202Y	2000 \pm 50%	5mV,100kHz	0.42	0.6	3000	1 ~5
KCMF9060-472Y	4700 \pm 50%	5mV,100kHz	0.75	0.5	4000	0.3 ~3
KCMF9060-652Y	6500 \pm 50%	5mV,100kHz	0.95	0.4	5000	0.3 ~2
KCMF9060-103Y	10000 \pm 50%	5mV,100kHz	1.2	0.35	6000	0.3~1.5
KCMF9060-203Y	20000 \pm 50%	5mV,100kHz	2.6	0.2	12000	0.2~1.0

- DCR Electrical specifications at 20°C
- IR base on Temp. rise 40°C, temperature rise from 25°C ambient
- Dielectric strength 500VDC max between line to line; Rated voltage: 80VDC
- S*: winding type is sectional, without S is Bifiliar

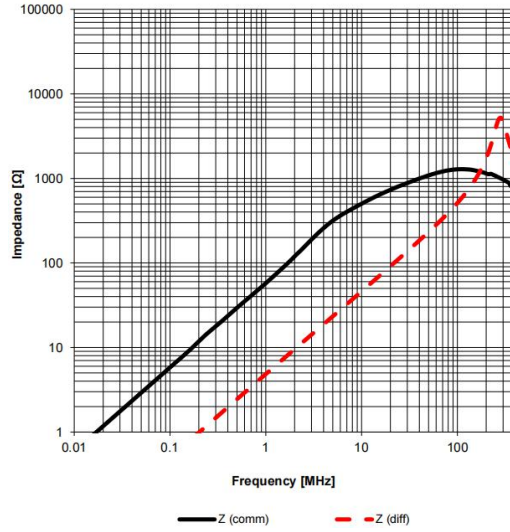
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TYPICAL ELECTRICAL CHARACTERISTICS

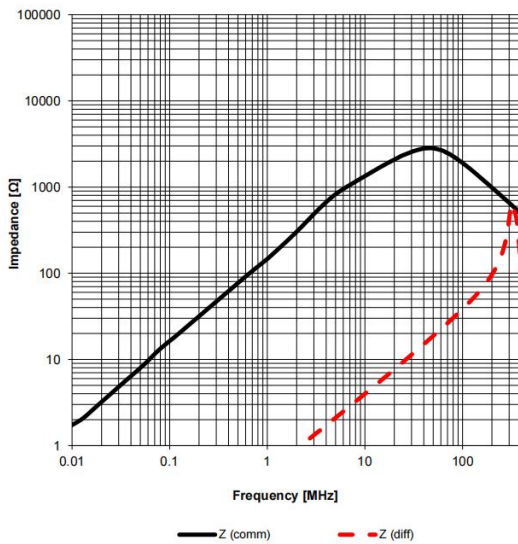
KCMF9060-100Y



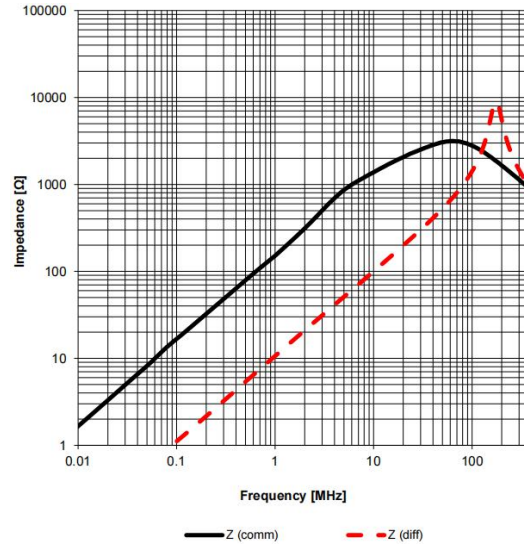
KCMF9060S*-100Y



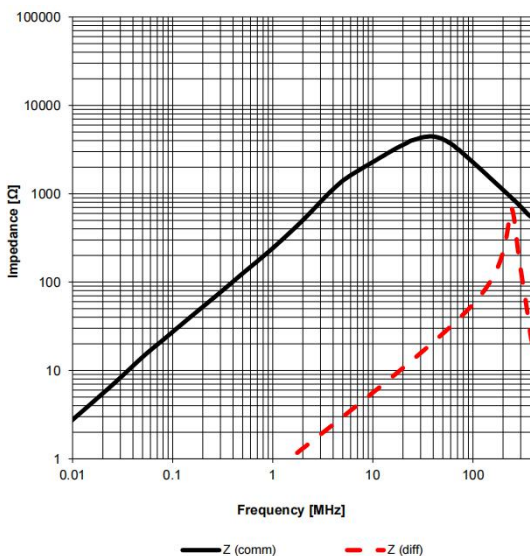
KCMF9060-250Y



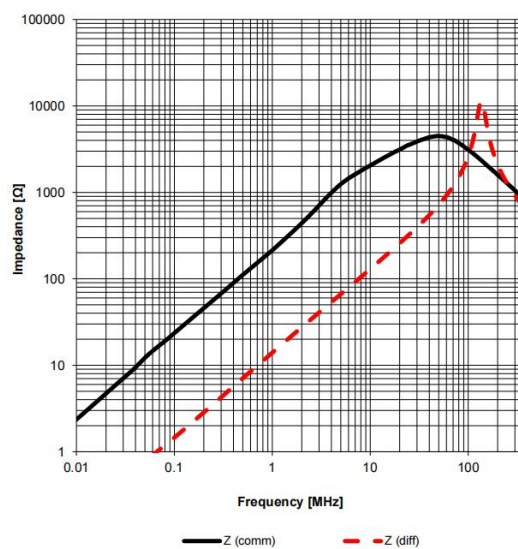
KCMF9060S*-250Y



KCMF9060-400Y

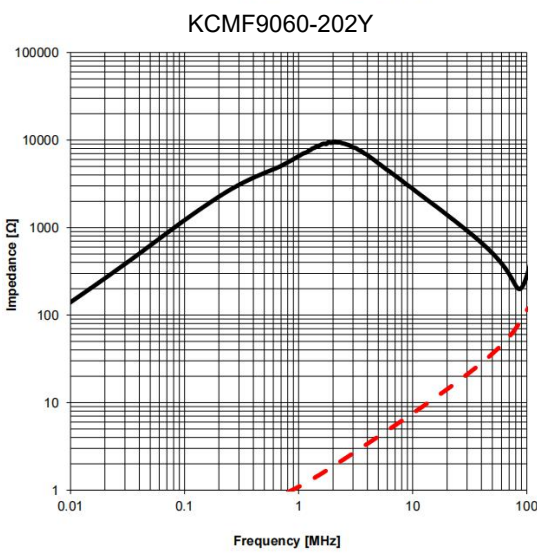
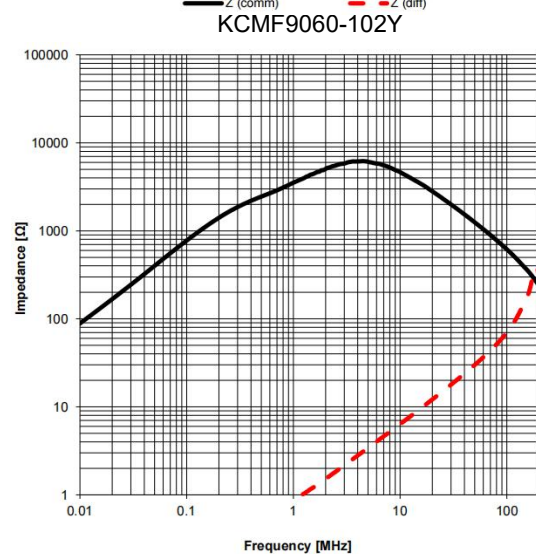
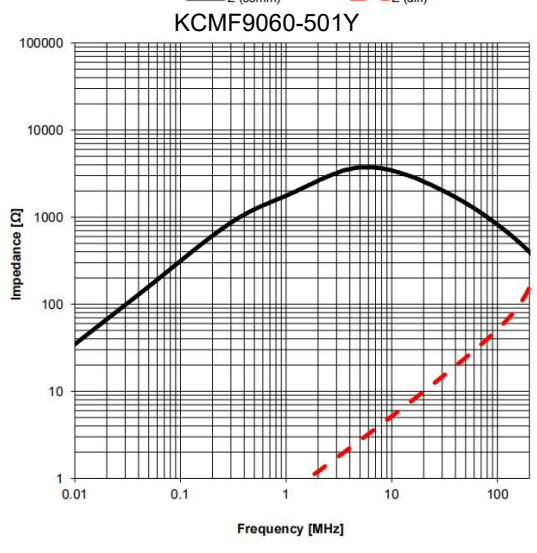
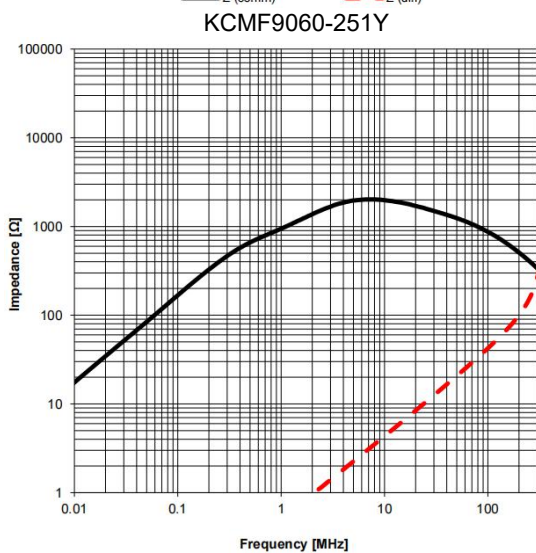
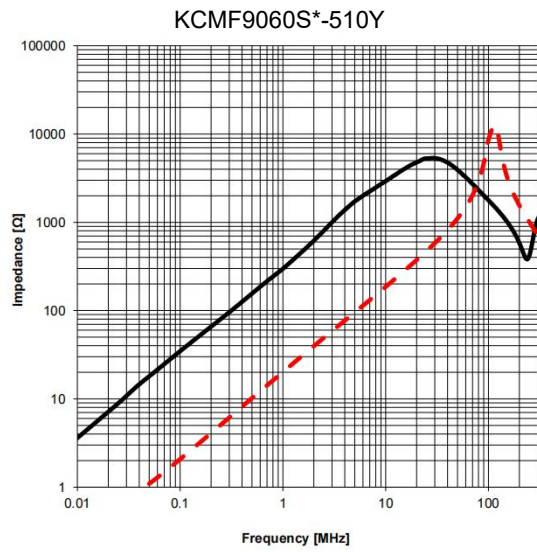
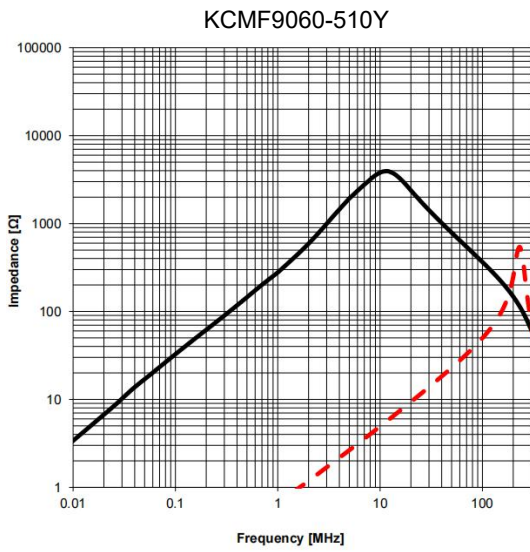


KCMF9060S*-400Y



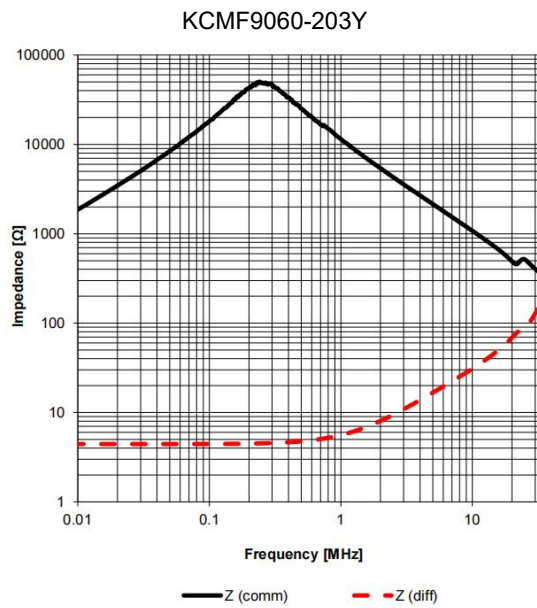
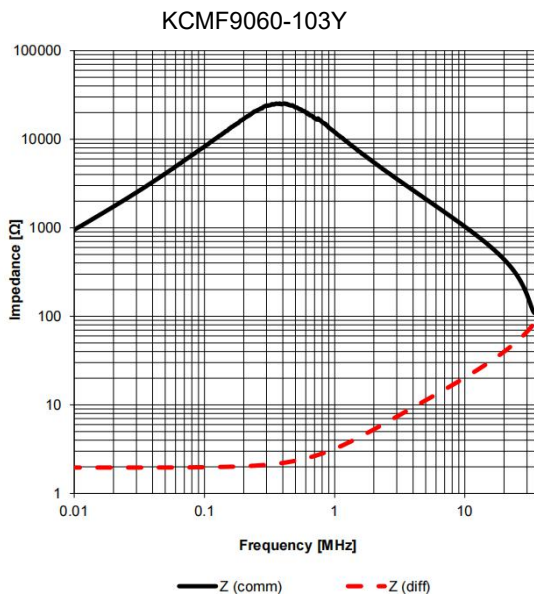
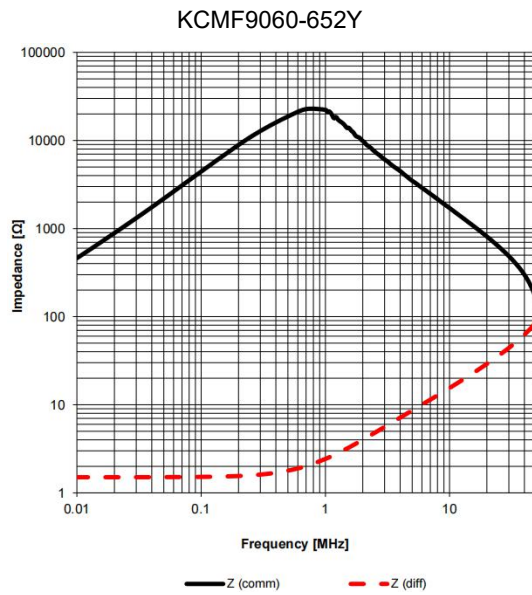
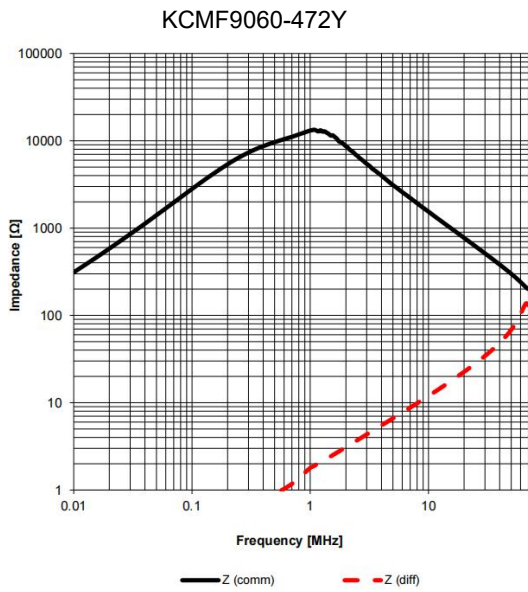
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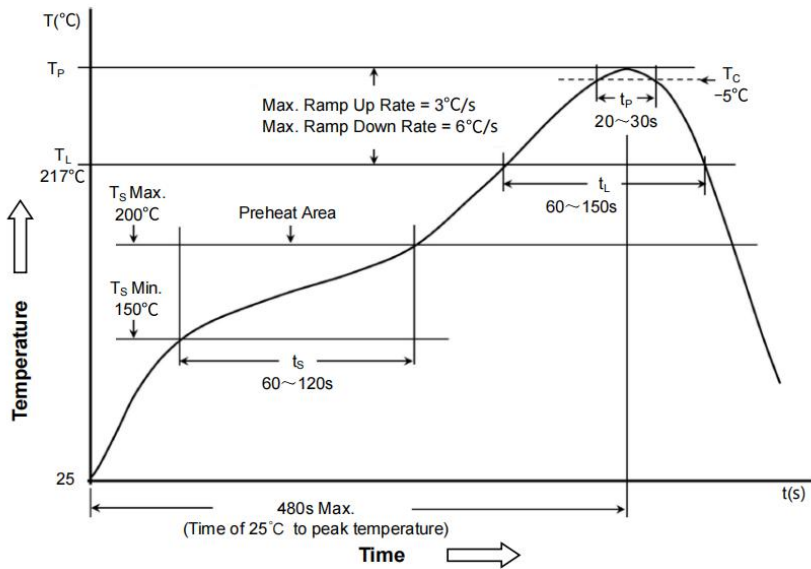
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TYPICAL ELECTRICAL CHARACTERISTICS



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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°C , 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.