

Winding Type Common Mode Choke-KCMC Series

Features

- Excellent solderability and resistance to soldering heat.
- Winding type realizes small size and low profile
- Good dimensions, high reliability, and easy surface mount assembly
- Operating temperature: -40°C to +85°C



Application

- USB2.0 of PC, peripheral equipments, small digital AV equipments, etc.
- LVDS lines of Note PC, LCD
- Audio lines

Product Identification

KCMC 0603 - 900 S
 ① ② ③ ④

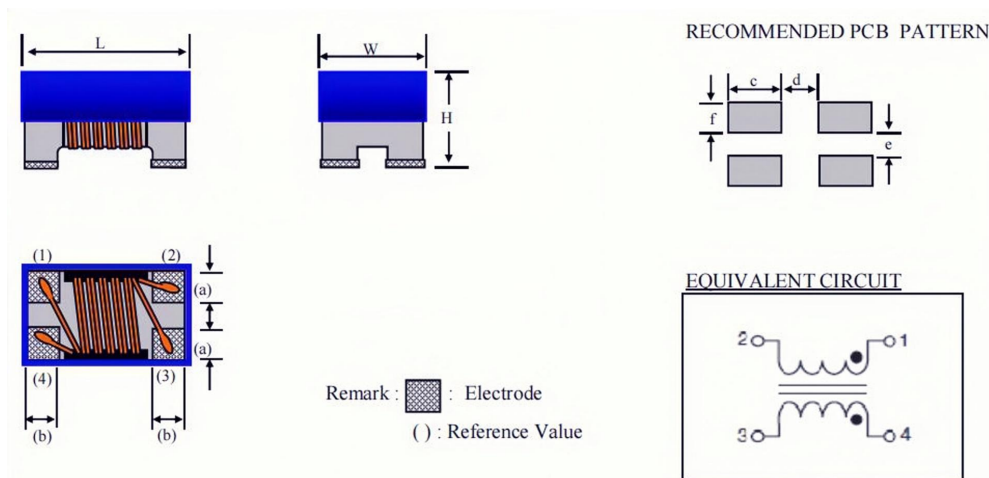
②

Code	L(mm)	W(mm)	H(mm)
0603	1.60 ± 0.10	0.85 ± 0.10	1.10 ± 0.10

Chip Size:

- ① Series name: Chip Common Mode Choke Coil
- ③ Typical Impedance at 100MHz: 900=90Ω
- ④ Tolerance: ±25%

SHAPE AND DIMENSIONS



Series	L(mm)	W(mm)	H(mm)	a(mm)	b(mm)	c(mm)	d(mm)	e(mm)	f(mm)
0603	1.60 ± 0.10	0.85 ± 0.10	1.10 ± 0.10	0.25	0.33	0.85	0.60	0.25	0.25
0805	2.00 ± 0.20	1.20 ± 0.20	1.20 ± 0.20	0.40	0.45	0.90	0.80	0.40	0.40
1206	3.20 ± 0.20	1.60 ± 0.20	1.90 ± 0.20	0.60	0.60	1.00	1.60	0.40	0.60

SPECIFICATIONS

KCMC0603 Series

Part Number	Z Ω 100MHz(Ω)	I _r (mA)	R _{dc} (Ω)	U _r (DC) V
KCMC0603-220S	22	500	0.080	50
KCMC0603-450S	45	500	0.110	
KCMC0603-900S	90	500	0.145	
KCMC0603-121S	120	500	0.175	
KCMC0603-181S	180	500	0.210	
KCMC0603-251S	250	400	0.280	

KCMC0805 Series

Part Number	Z Ω 100MHz(Ω)	I _r (mA)	R _{dc} (Ω)	U _r (DC) V
KCMC0805-670S	67	400	0.25	50
KCMC0805-900S	90	330	0.35	
KCMC0805-121S	120	370	0.30	
KCMC0805-181S	180	330	0.35	
KCMC0805-261S	260	300	0.40	
KCMC0805-361S	360	280	0.45	

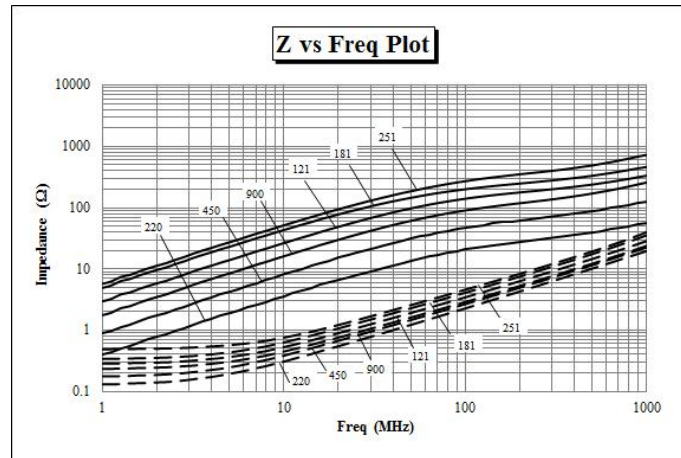
KCMC1206 Series

Part Number	Z Ω 100MHz(Ω)	I _r (mA)	R _{dc} (Ω)	U _r (DC) V
KCMC1206-900S	90	370	0.3	50
KCMC1206-161S	160	340	0.4	
KCMC1206-261S	260	310	0.5	
KCMC1206-601S	600	260	0.8	
KCMC1206-102S	1000	230	1.0	
KCMC1206-222S	2200	200	1.2	

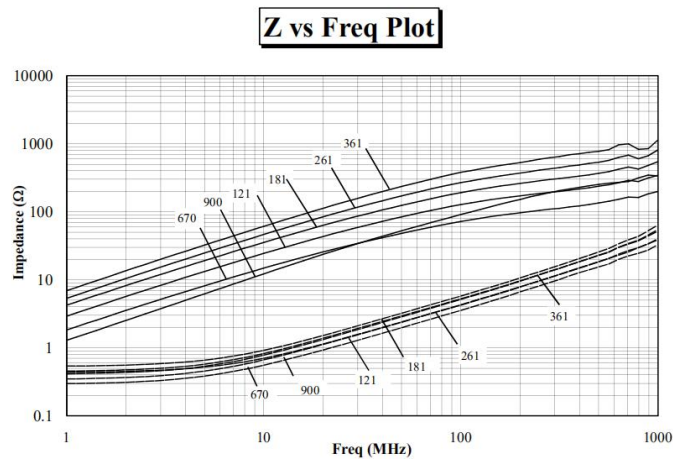
- Impedance is measured in HP4287A at frequency of 100MHz.
- I_r: for 15°C rise.

TYPICAL ELECTRICAL CHARACTERISTICS

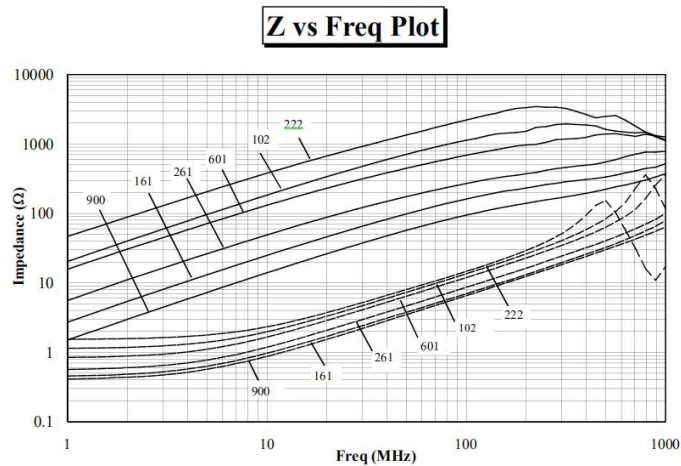
KCMC0603 Series



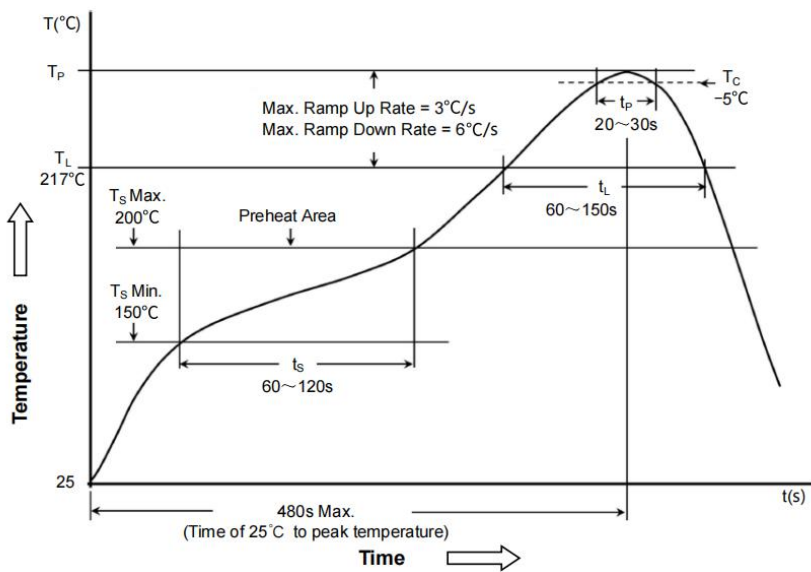
KCMC0805 Series



KCMC1206 Series



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.