

Common mode Noise Filters

Type: **EXC24CE**
EXC24CF



Features

- Reduce the common mode noise and reform the signal wave by high-coupled inductors
- The strong multi-layer structure provides high resistance to reflow soldering heat and a high mounting reliability
- Magnetic shield type
- High-Q impedance : EXC24CF type is also available
- Small size and low-profile (L 1.25 mm×W 1.00 mm×H 0.50 mm)
- RoHS compliant

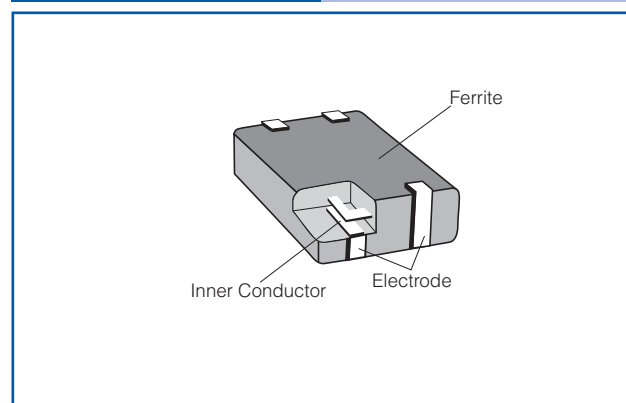
Recommended Applications

- AV equipment (LCD-TV, DVD/Blu-ray drives), Information equipment (PCs, HDD, Printers), Communications equipment (Mobile phones, Smart phones)
- Noise suppression of high-speed differential data lines such as USB2.0 and LVDS

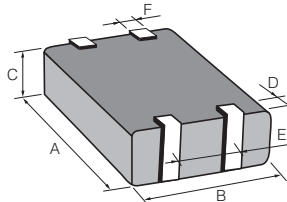
Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	X	C	2	4	C	E	9	0	0	U	
Product Code			Size	Number of Terminals	Type	Characteristics	Nominal Impedance			Form	Suffix
Noise Filter	Code	Dimensions(mm)	4 Terminals	C	Coupled type	E High speed Differential transmission (for Mbps) F High speed Differential transmission (for Mbps) High-Q type	The first two digits are significant figure of impedance value, and the third one denotes the number of zeros following			Code	Packing
	2	1.25 × 1.00 × 0.50 (L) × (W) × (H)								U	Embossed Carrier Taping 4 mm pitch, 5,000 pcs.

Construction

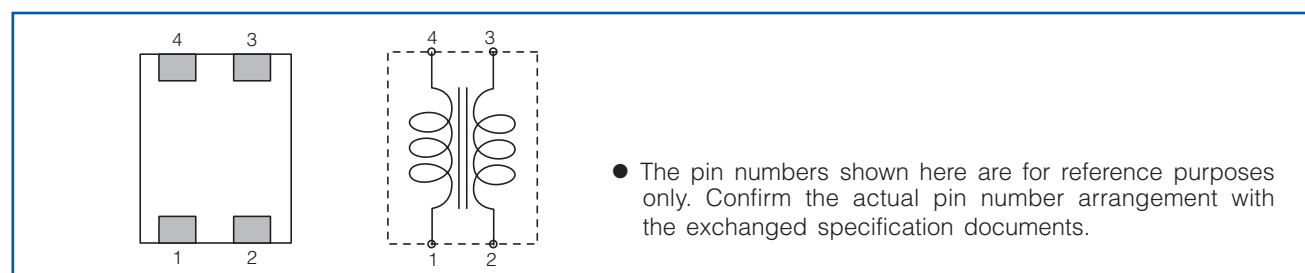


Dimensions in mm (not to scale)



Part No. (inch size)	Dimensions (mm)						Mass (Weight) [mg/pc.]
	A	B	C	D	E	F	
EXC24CE/CF (0504)	1.25±0.15	1.00±0.15	0.50±0.10	0.20±0.15	0.55±0.10	0.30±0.10	3

Circuit Configuration (No Polarity)



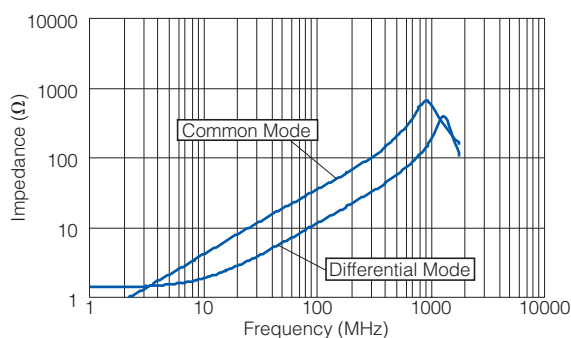
Ratings

Part Number	Impedance (Ω) at 100 MHz		Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance (Ω)max.
	Common Mode	Differential Mode			
EXC24CE360UP	36 $\Omega \pm 25\%$	20 Ω max.	5	200	1.0
EXC24CE900U	90 $\Omega \pm 25\%$	15 Ω max.	5	160	1.75
EXC24CE121U	120 $\Omega \pm 25\%$	18 Ω max.	5	140	2.2
EXC24CE201U	200 $\Omega \pm 25\%$	20 Ω max.	5	130	2.7
EXC24CF900U	90 $\Omega \pm 25\%$	20 Ω max.	5	130	2.5

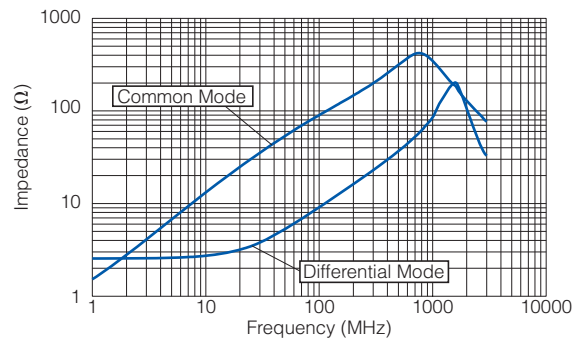
- Category Temperature Range $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$

Impedance Characteristics (Typical)

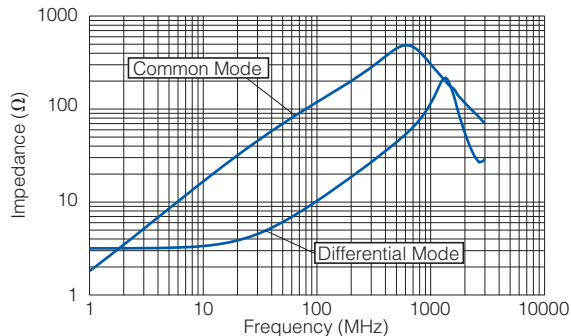
● EXC24CE360UP



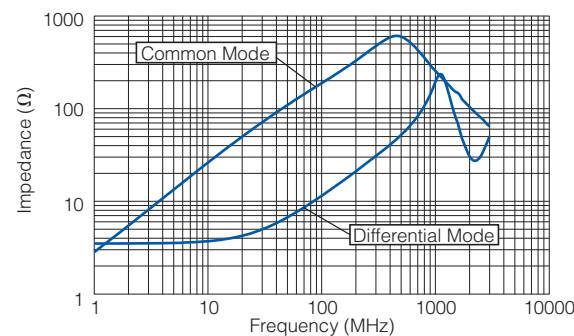
● EXC24CE900U



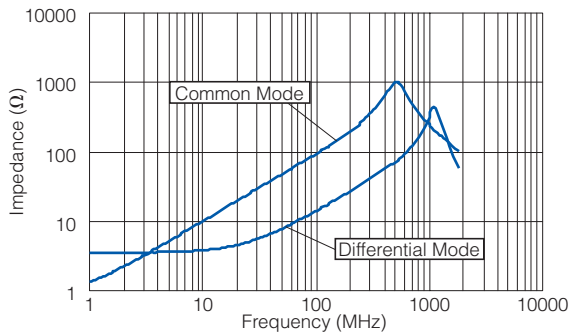
● EXC24CE121U



● EXC24CE201U

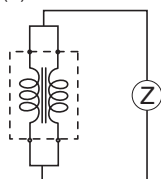


● EXC24CF900U

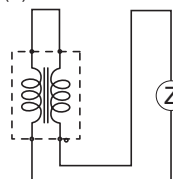


● Measurement Circuit

(A) Common Mode



(B) Differential Mode



■ As for Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions, Please see Data Files