

Common mode Noise Filters

Type: **EXCX4CE**



Features

- Small and thin (L 0.65 mm×W 0.50 mm×H 0.30 mm)
- Noise suppression of high-speed differential transmission lines with little influence of waveform rounding on signal transmission
- Strong multilayer/sintered structure, excellent reflow resistance and high mounting reliability
- Lead, halogen and antimony-free
- RoHS compliant

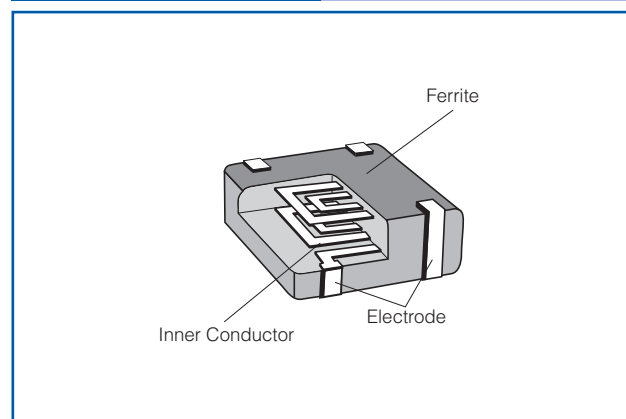
Recommended Applications

- Smartphones, Tablet PCs and DSC
- Noise suppression of high-speed differential data lines such as MIPI, USB and LVDS

Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	X	C	X	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			The first two digits are significant figure of impedance value, and the third one denotes the number of zeros following	
	X	0.65 × 0.50 × 0.30 (L) × (W) × (H)								Code	Packing
										U	Pressed Carrier Taping 2 mm pitch, 10,000 pcs.

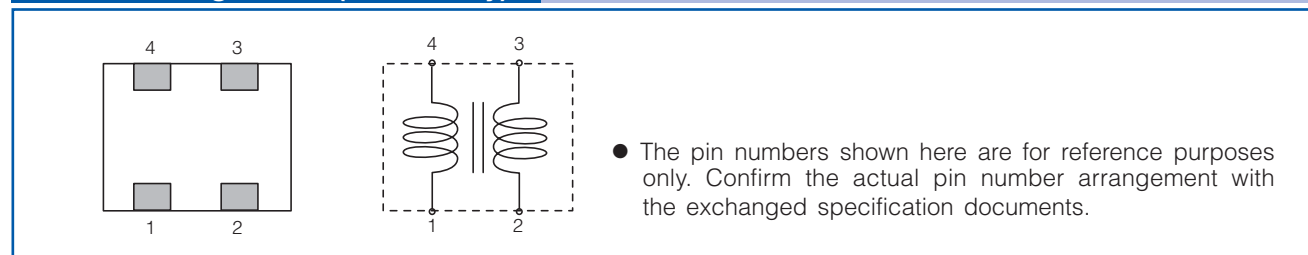
Construction



Dimensions in mm (not to scale)

Part No. (inch size)	Dimensions (mm)						Mass (Weight) [mg/pc.]
	A	B	C	D	E	F	
EXCX4CE (0202)	0.50±0.05	0.65±0.05	0.30±0.05	0.12±0.10	0.40±0.10	0.15±0.10	0.56

Circuit Configuration (No Polarity)



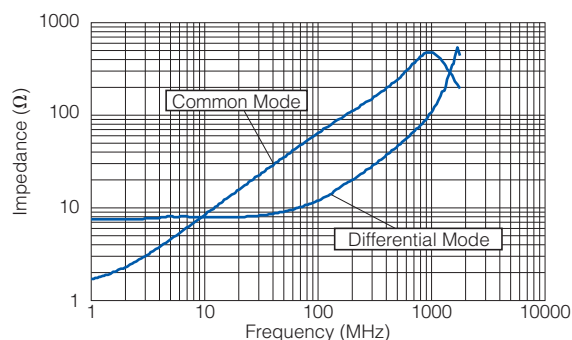
Ratings

Part Number	Impedance (Ω) at 100 MHz		Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance (Ω)max.
	Common Mode	Differential Mode			
EXCX4CE600U	60 $\Omega \pm 20\%$	18 Ω max.	5	100	2.4 $\pm 30\%$
EXCX4CE900U	90 $\Omega \pm 20\%$	20 Ω max.	5	100	3.0 $\pm 30\%$

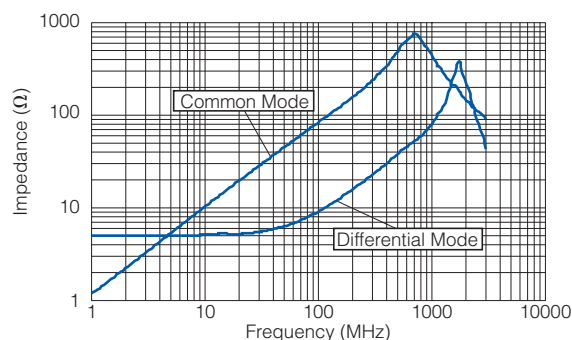
- Category Temperature Range $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$

Impedance Characteristics (Typical)

● EXCX4CE600U

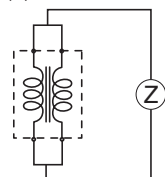


● EXCX4CE900U

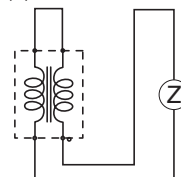


● Measurement Circuit

(A) Common Mode



(B) Differential Mode



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