Common mode Noise Filters

Type: **EXC14CG**
EXC14CE

■ Features

- Small size and low-profile
  (L 0.85 mm×W 0.65 mm×H 0.45 mm)
- Filtering the noise of high-speed differential signaling lines and minimizing deformations of transmitted signal waveforms
- Low DC resistance and insertion loss
- High-Q filters with high impedance at around 1 GHz : CG type
- Rigidly layered and sintered structure with high resistance to reflow heat and mounting reliability
- Lead, halogen, and antimony free
- RoHS compliant

■ Recommended Applications

- Mobile phone, DSC, notebook PCs and Digital displays
- Noise suppression of high-speed data lines such as USB, LVDS and HDMI lines

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	X	C	1	4	C	E	9	0	0	U	
Product Code			Size	Number of Terminals	Type	Characteristics	Nominal Impedance			Form	Suffix

Product Code: Noise Filter

Size

Code	Dimensions(mm)
1	0.85 × 0.65 × 0.45 (L) × (W) × (H)

Number of Terminals: 4 Terminals

Type

C	Coupled type

Characteristics

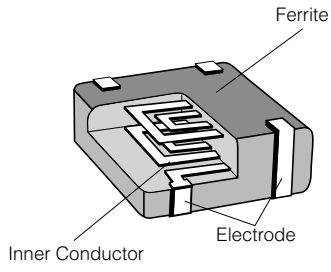
E	High speed Differential transmission
G	High-Q type

Nominal Impedance: The first two digits are significant figure of impedance value, and the third one denotes the number of zeros following

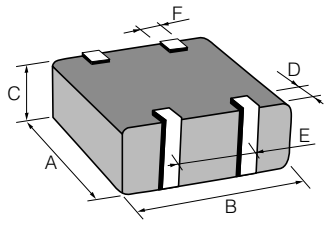
Form

Code	Packing
U	Embossed Carrier Taping 2 mm pitch, 10,000 pcs.

■ Construction

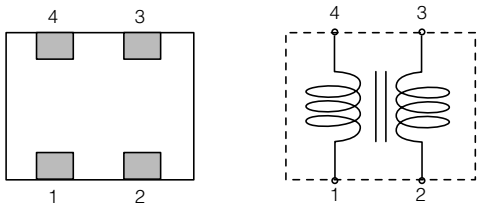


■ Dimensions in mm (not to scale)



Type (inch size)	Dimensions (mm)						Mass (Weight) [mg/pc.]
	A	B	C	D	E	F	
EXC14CG/CE (0302)	0.65±0.05	0.85±0.05	0.45±0.05	0.10 min.	0.50±0.10	0.27±0.10	1.4

■ Circuit Configuration(No Polarity)



✻The pin numbers shown here are for reference purposes only. Confirm the actual pin number arrangement with the exchanged specification documents.

02 Nov. 2012

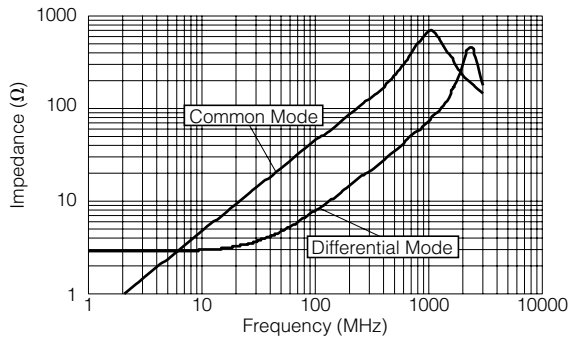
■ Ratings

Part Number	Impedance (Ω) at 100 MHz		Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance (Ω)max.
	Common Mode	Differential Mode			
EXC14CG430U	43 Ω±25 %	15 Ω max.	5	100	2.7
EXC14CE650U	65 Ω±20 %	20 Ω max.	5	130	2.5
EXC14CE900U	90 Ω±20 %	20 Ω max.	5	130	2.5

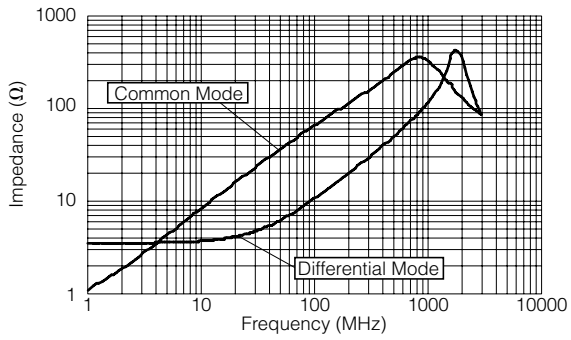
● Category Temperature Range –40 °C to +85 °C

■ Impedance Characteristics (Typical)

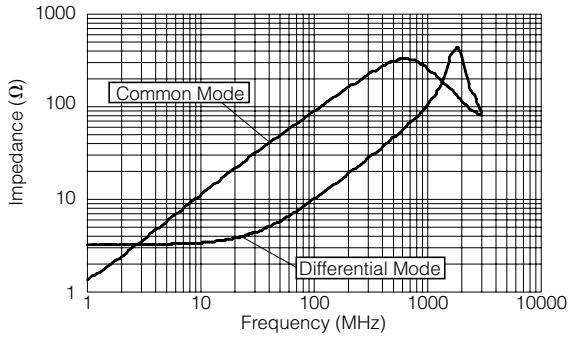
● EXC14CG430U



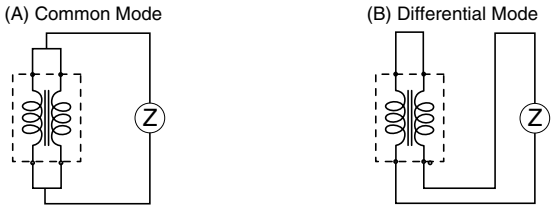
● EXC14CE650U



● EXC14CE900U



● Measurement Circuit



■ Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions

Please see Related Information