

Common mode Noise Filters with ESD Suppressor

Type: **EXC14CS**



Features

- Provides EMI Filtering and ESD Protection (L 0.85 mm×W 0.65 mm×H 0.45 mm)
- ESD and noise suppression of high-speed differential transmission lines with little influence of waveform rounding on signal transmission
- High Common mode attenuation in the range between 700 MHz and 1 GHz (RF band)
- Strong multilayer/sintered structure, excellent reflow resistance and high mounting reliability
- Lead, halogen and antimony-free
- RoHS compliant

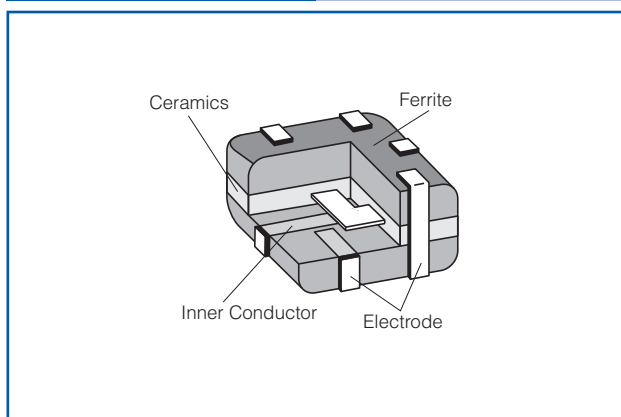
Recommended Applications

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

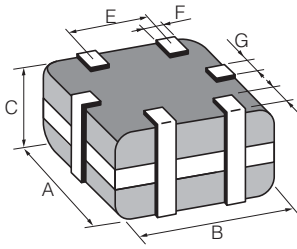
Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	X	C	1	4	C	S	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	S	The first two digits are significant figure of impedance value, and the third one denotes the number of zeros following			Code	Packing
	1	0.85 × 0.65 × 0.45 (L) × (W) × (H)								U	Embossed Carrier Taping 2 mm pitch, 10,000 pcs.

Construction

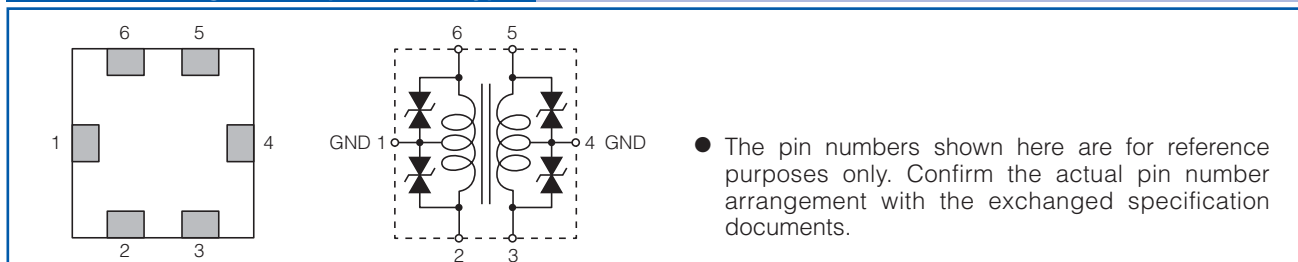


Dimensions in mm (not to scale)



Part No. (inch size)	Dimensions (mm)							Mass (Weight) [mg/pc.]
	A	B	C	D	E	F	G	
EXC14CS (0302)	0.67±0.05	0.87±0.05	0.45±0.05	0.15±0.07	0.50±0.05	0.23±0.07	0.17±0.07	0.97

Circuit Configuration(No Polarity)



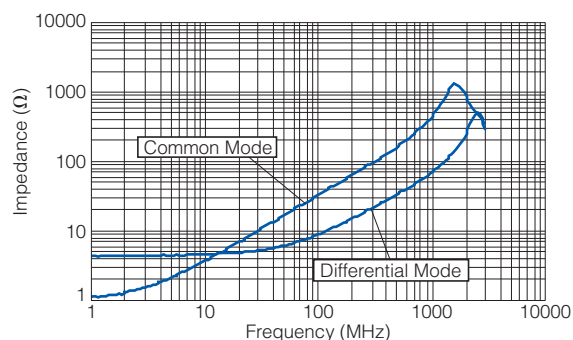
Ratings

Part Number	Impedance (Ω) at 100 MHz		Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance (Ω)
	Common Mode	Differential Mode			
EXC14CS350U	35 $\Omega \pm 30\%$	15 Ω max.	5	100	2.0 $\pm 30\%$
EXC14CS900U	90 $\Omega \pm 20\%$	20 Ω max.	5	100	3.3 $\pm 30\%$

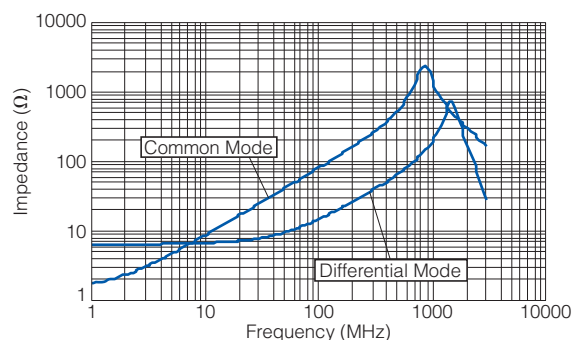
- Category Temperature Range $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$

Impedance Characteristics (Typical)

EXC14CS350U

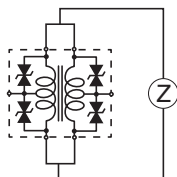


EXC14CS900U

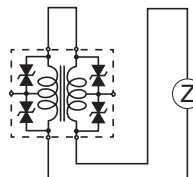


Measurement Circuit

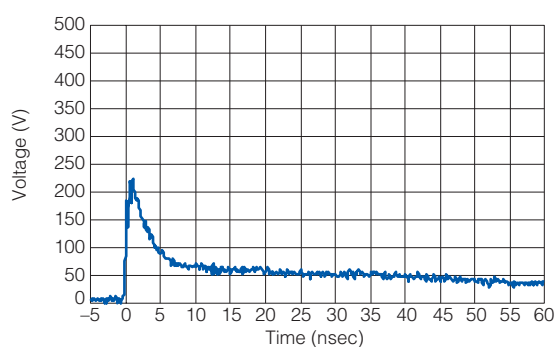
(A) Common Mode



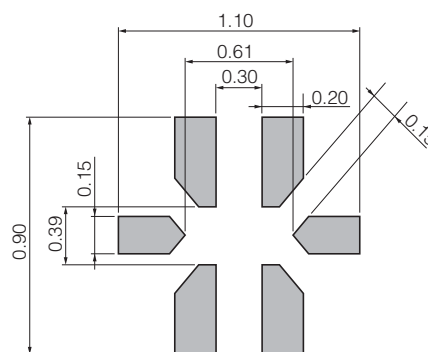
(B) Differential Mode



ESD Suppression Characteristics(Typical : IEC61000-4-2, 8 kV contact discharge)



Recommended Land Pattern Design in mm (not to scale)



As for Packaging Methods, Soldering Conditions and Safety Precautions,

Please see Data Files

Mouser Electronics

Authorized Distributor

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Panasonic:

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