

Common mode Noise Filters

Type: **EXC16CT**



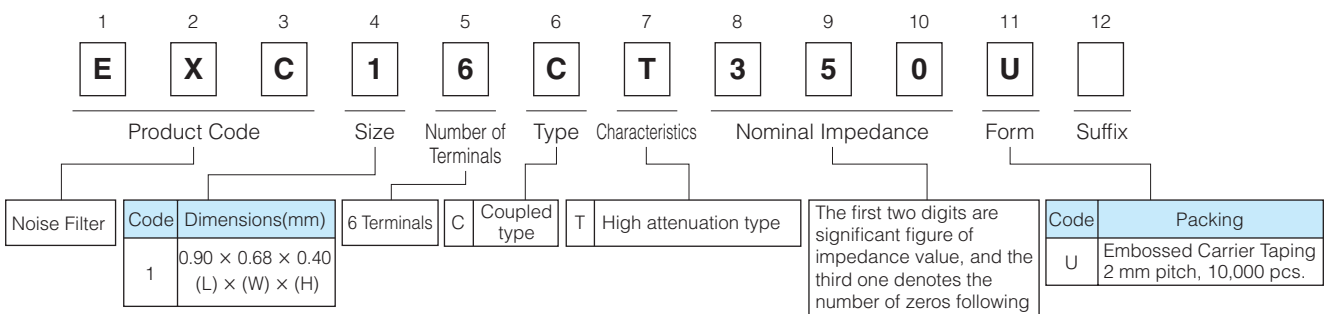
Features

- Corresponding to new high-speed differential interface (MIPI C-PHY)
Corresponding to 3-line transmission, transmission rate up to 2.5 Gbps
- Unique plating fine coil process and ceramic multilayer process enable compact size
(L 0.9.0 mm×W 0.68 mm×H 0.40 mm)
around 40% reduction of mounting area (comparing with MIPI D-PHY)
- Strong multilayer/sintered structure, excellent reflow resistance and high mounting reliability
- Lead, halogen and antimony-free
- RoHS compliant

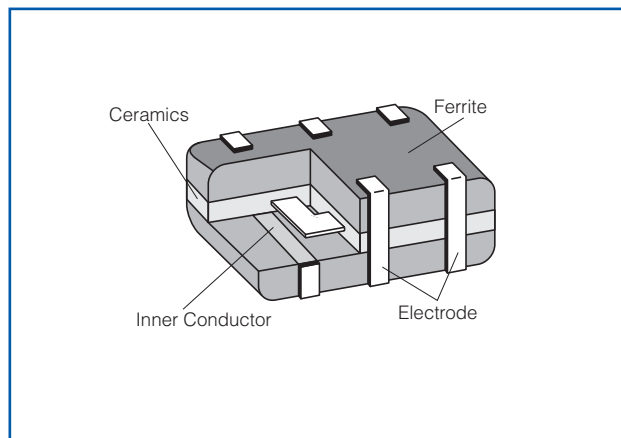
Recommended Applications

- High resolution camera and display equipped mobile devices (Smartphones, Tablet PCs and wearable)
- Noise suppression of high-speed differential data lines such as MIPI C-PHY

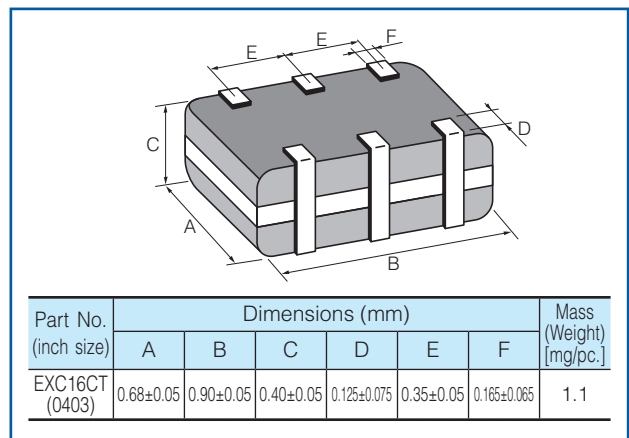
Explanation of Part Numbers



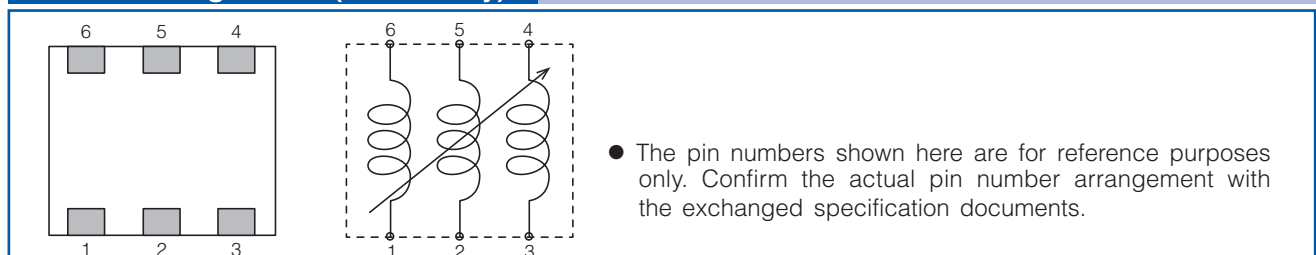
Construction



Dimensions in mm (not to scale)



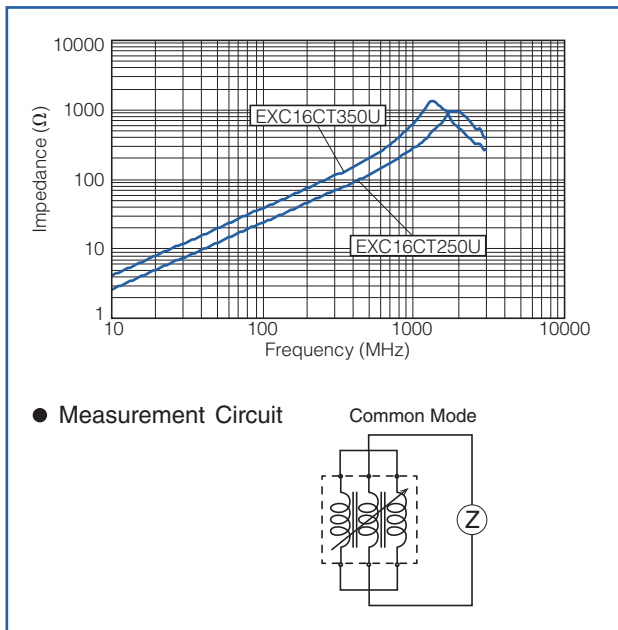
Circuit Configuration (No Polarity)



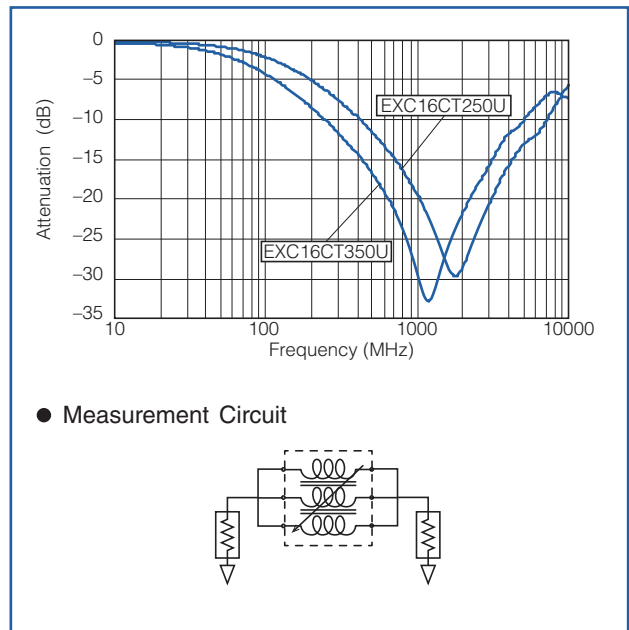
Part Number	Impedance (Ω) at 100 MHz	Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance (Ω) max.
	Common Mode			
EXC16CT250U	25 $\Omega \pm 25\%$	5	100	3.0
EXC16CT350U	35 $\Omega \pm 25\%$	5	100	4.0

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

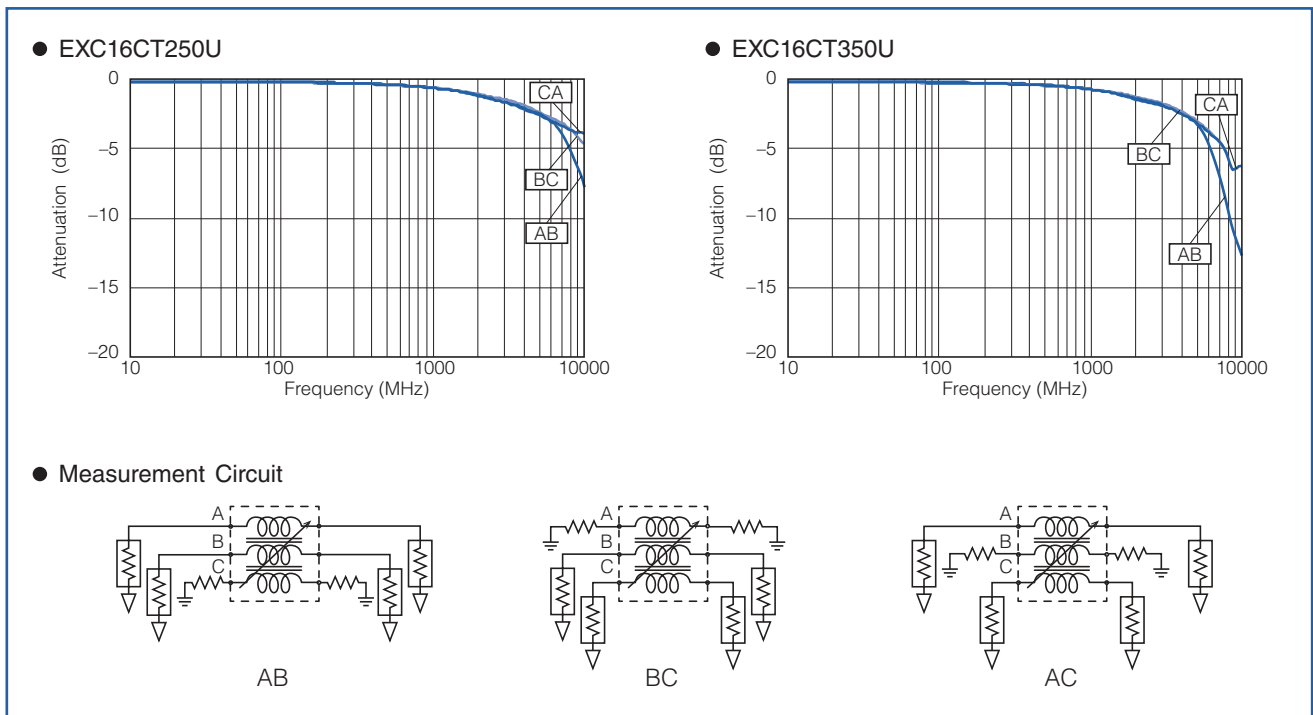
Common mode Impedance Characteristics (Typical)



Common mode Attenuation Characteristics (Typical)



Differential Insertion Loss (Typical)



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

Performance

Test Item	Performance Requirements	Test Conditions
Resistance	Within Specified Tolerance	25 °C
Overload	–	Rated Voltage
Resistance to Soldering Heat	±30 % (Impedance Change)	260 °C, 10 s
Rapid Change of Temperature	±30 % (Impedance Change)	–40 °C (30 min.) / +85 °C (30 min.), 200 cycles
High Temperature Exposure	±30 % (Impedance Change)	85 °C, 500 h
Damp Heat, Steady State	±30 % (Impedance Change)	60 °C, 95 %RH, 500 h
Load Life in Humidity	±30 % (Impedance Change)	60 °C, 95 %RH, Rated Current, 500 h

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