

Common mode Noise Filters

Type: **EXC16CT**



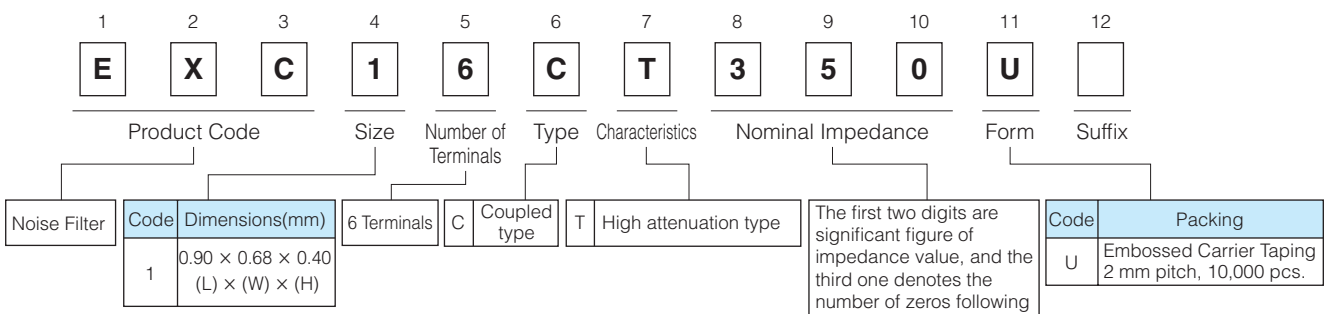
Features

- 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

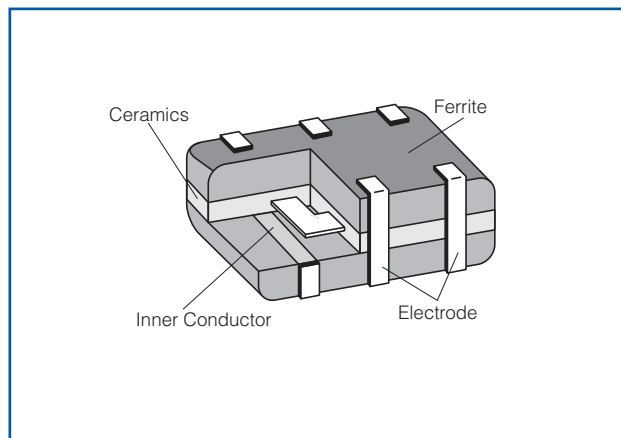
Recommended Applications

- 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

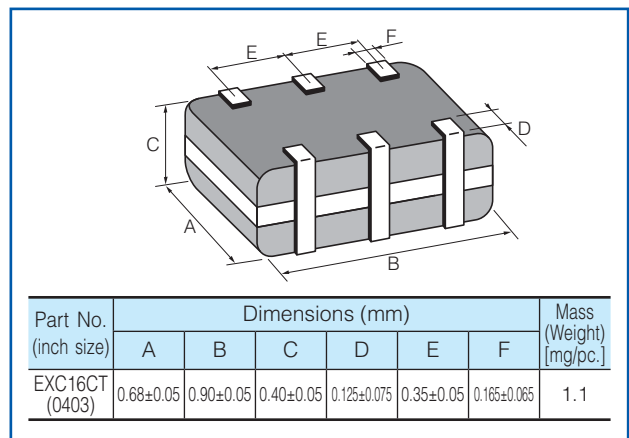
Explanation of Part Numbers



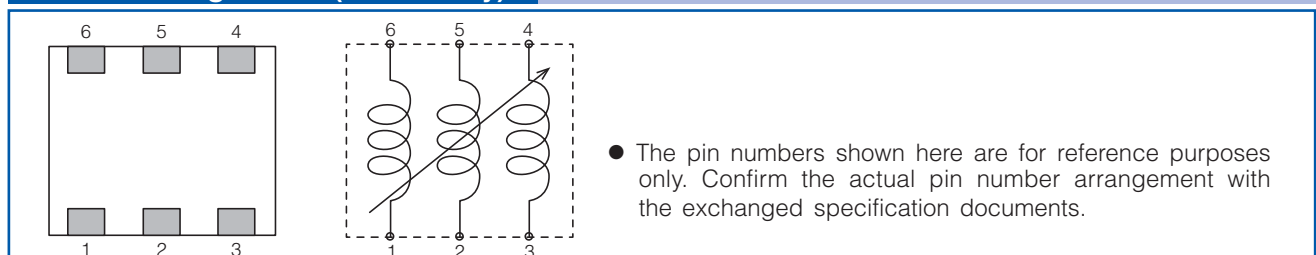
Construction



Dimensions in mm (not to scale)



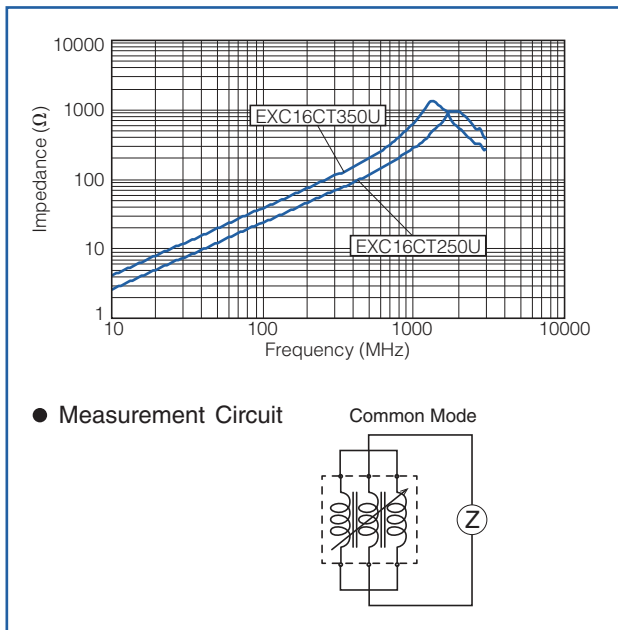
Circuit Configuration (No Polarity)



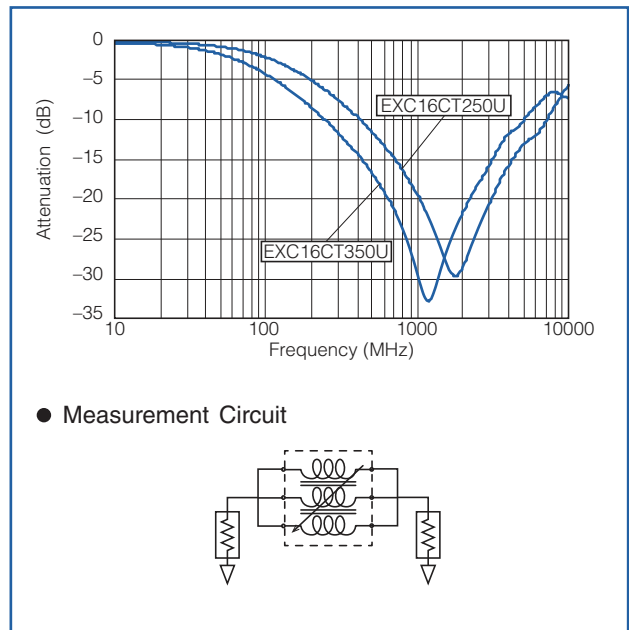
| Part Number | Impedance (Ω) at 100 MHz | Rated Voltage (V DC) | Rated Current (mA DC) | DC Resistance (Ω) max. |
|-------------|-----------------------------------|----------------------|-----------------------|---------------------------------|
| | Common Mode | | | |
| EXC16CT250U | 25 $\Omega \pm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

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

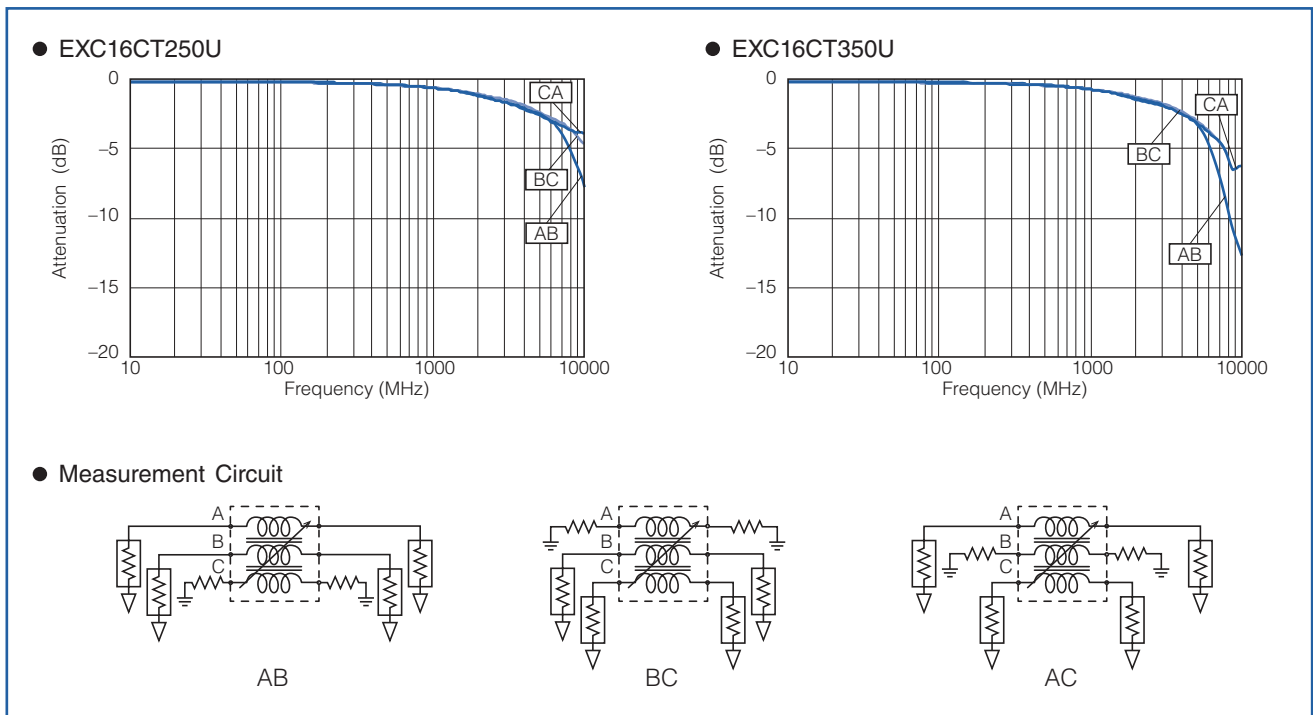
Common mode Impedance Characteristics (Typical)



Common mode Attenuation Characteristics (Typical)



Differential Insertion Loss (Typical)



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