

Common mode Noise Filters

Type: **EXC14CG**
EXC14CE



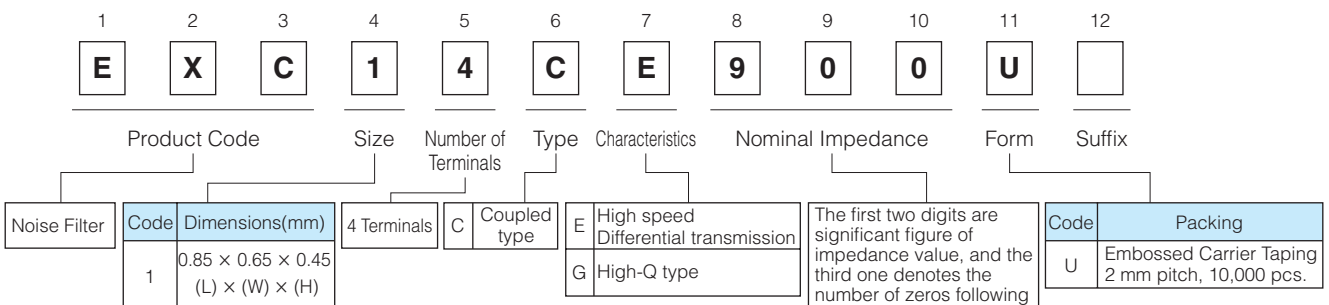
Features

- Small and thin (L 0.85 mm×W 0.65 mm×H 0.45 mm)
- Noise suppression of high-speed differential transmission lines with little influence of waveform rounding on signal transmission
- Low DC resistance and low insertion loss
- High-Q value and high impedance of GHz zone : EXC14CG type
- Strong multilayer/sintered structure, excellent reflow resistance and high mounting reliability
- Lead, halogen and antimony-free
- RoHS compliant

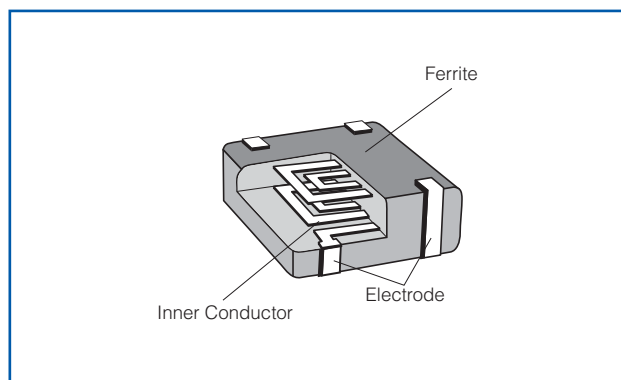
Recommended Applications

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

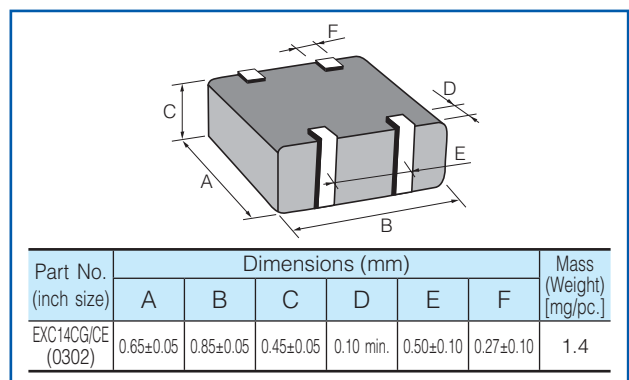
Explanation of Part Numbers



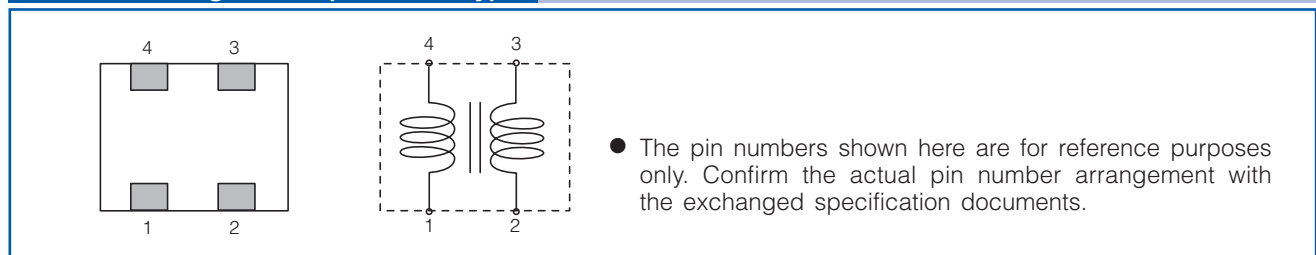
Construction



Dimensions in mm (not to scale)



Circuit Configuration(No Polarity)



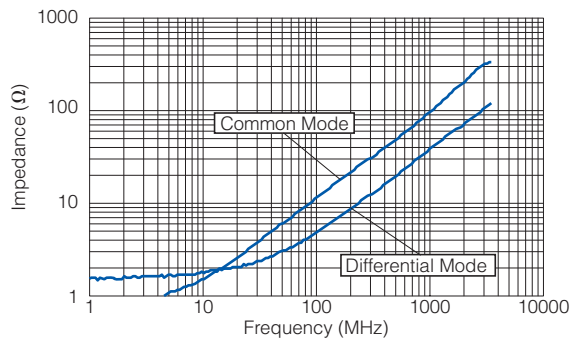
Ratings

| Part Number | Impedance (Ω) at 100 MHz | | Rated Voltage (V DC) | Rated Current (mA DC) | DC Resistance (Ω)max. |
|-------------|-----------------------------------|-------------------|----------------------|-----------------------|--------------------------------|
| | Common Mode | Differential Mode | | | |
| EXC14CG120U | 12 $\Omega \pm 30\%$ | 10 Ω max. | 5 | 130 | 2.0 |
| EXC14CG350U | 35 $\Omega \pm 30\%$ | 15 Ω max. | 5 | 100 | 2.0 |
| EXC14CG430U | 43 $\Omega \pm 25\%$ | 15 Ω max. | 5 | 100 | 2.7 |
| EXC14CE650U | 65 $\Omega \pm 20\%$ | 20 Ω max. | 5 | 130 | 2.5 |
| EXC14CE900U | 90 $\Omega \pm 20\%$ | 20 Ω max. | 5 | 130 | 2.5 |
| EXC14CE121U | 120 $\Omega \pm 20\%$ | 20 Ω max. | 5 | 100 | 3.8 |

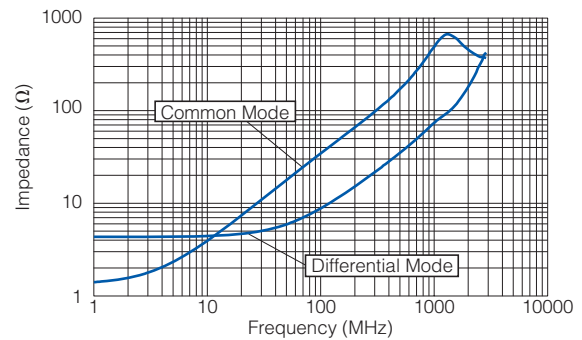
- Category Temperature Range $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$

Impedance Characteristics (Typical)

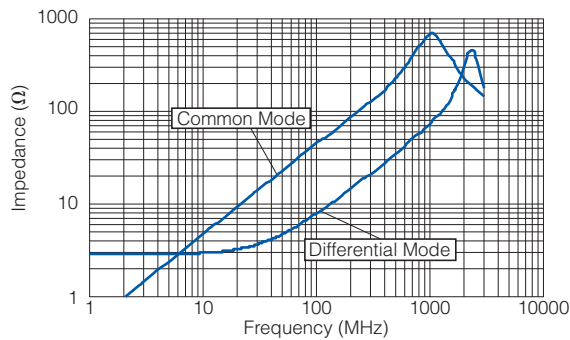
● EXC14CG120U



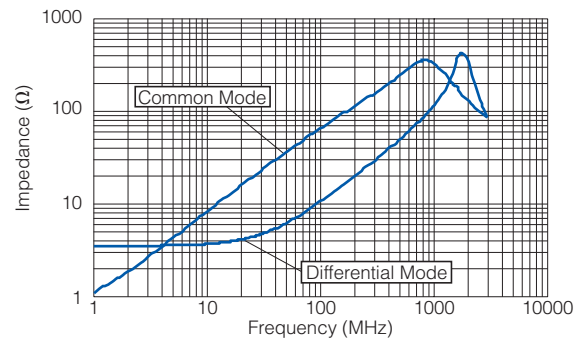
● EXC14CG350U



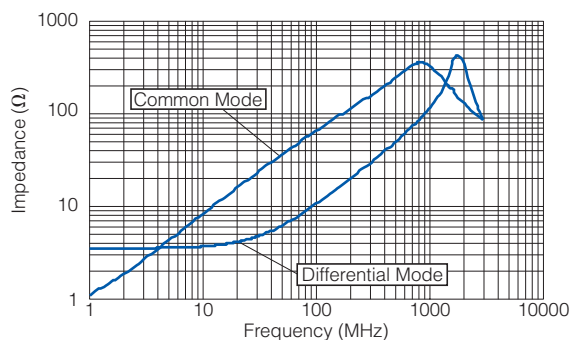
● EXC14CG430U



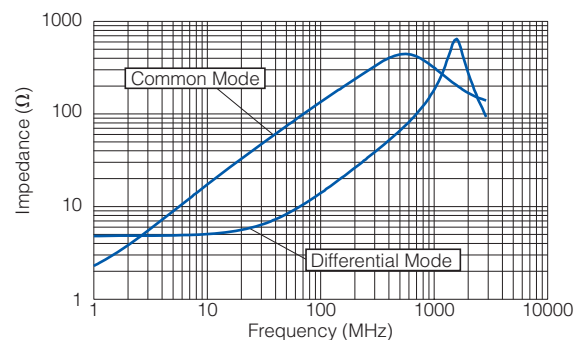
● EXC14CE650U



● EXC14CE900U

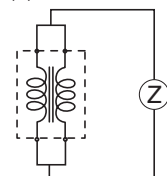


● EXC14CE121U

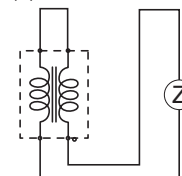


● Measurement Circuit

(A) Common Mode

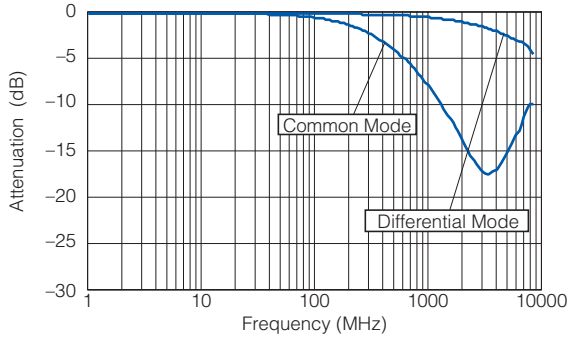


(B) Differential Mode

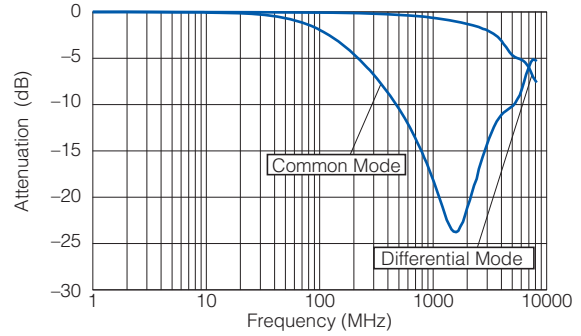


Attenuation Characteristics (Typical)

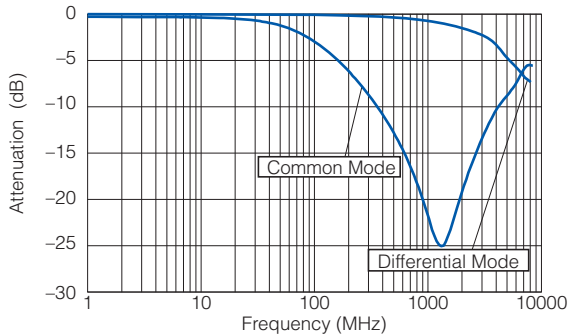
● EXC14CG120U



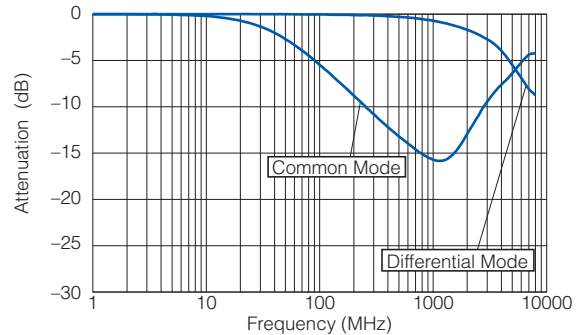
● EXC14CG350U



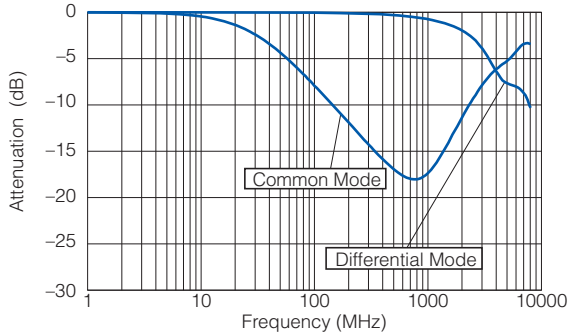
● EXC14CG430U



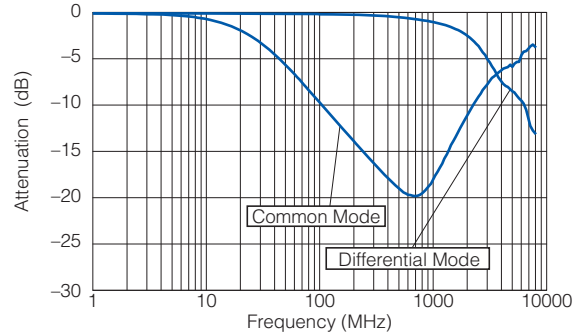
● EXC14CE650U



● EXC14CE900U



● EXC14CE121U



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

Mouser Electronics

Authorized Distributor

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[EXC-14CE900U](#) [EXC-14CE650U](#) [EXC-14CG430U](#) [EXC-14CG120U](#) [EXC-14CG350U](#) [EXC-14CE121U](#)