

Common mode Noise Filters

Type: **EXC34CG/CE**



■ **Features**

- Low-profile
(L 2.0 mm×W 1.25 mm×H 0.50 mm)
- Filtering the noise of high-speed differential signaling lines and minimizing deformations of transmitted signal waveforms
- Rigid multi-layer sintered structure with high resistance to reflow heat and mounting reliability
- Lead, halogen, and antimony free
- RoHS compliant

■ **Recommended Applications**

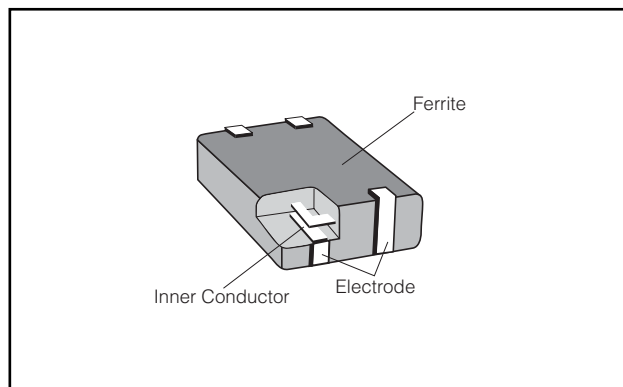
- Digital AV equipment (TV, Digital displays, DVD) Information equipment (computers, HDD)
- Interface examples
USB, LVDS, HDMI, LAN

■ **Explanation of Part Numbers**

| | | | | | | | | | | | |
|--------------|---|---|------|---------------------|------|-----------------|-------------------|---|----|------|--------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| E | X | C | 3 | 4 | C | G | 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 | E High speed Differential transmission (for Mbps) | G High speed Differential transmission (for Gbps) | The first two digits are significant figure of impedance value, and the third one denotes the number of zeros following | Code | Packing |
| | 3 | 2.00 × 1.25 × 0.50 (L) × (W) × (H) | | | | | | | U | Embossed Carrier Taping 4 mm pitch, 5,000 pcs. |

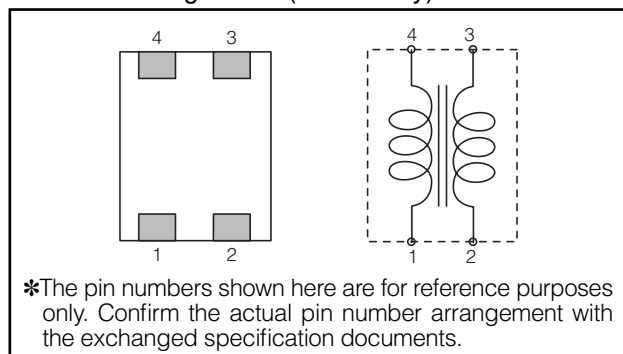
■ **Construction**



■ **Dimensions in mm (not to scale)**

| Type (inch size) | Dimensions (mm) | | | | | | Mass (Weight) [mg/pc.] |
|---------------------|-----------------|-----------|-----------|-----------|-----------|-----------|------------------------------|
| | A | B | C | D | E | F | |
| EXC34C (0805) | 2.00±0.15 | 1.25±0.15 | 0.50±0.10 | 0.30±0.20 | 0.80±0.10 | 0.30±0.15 | 5 |

■ **Circuit Configuration (No Polarity)**



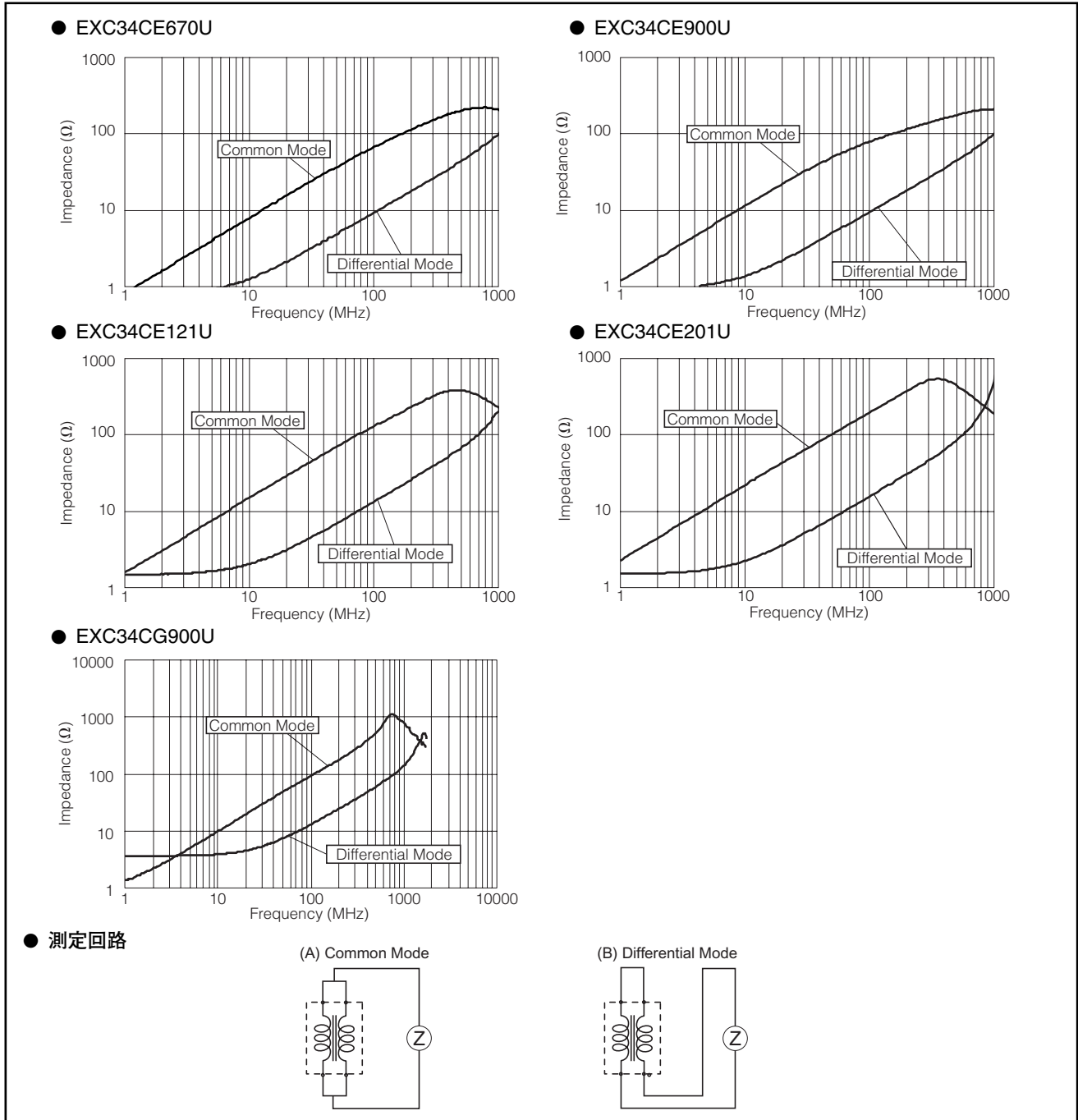
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■ Ratings

| Part Number | Impedance (Ω) at 100MHz | Rated Current (mA DC) | Rated Voltage (V DC) | Insulation Resistance ($M\Omega$ min.) | Withstand Voltage (V DC) | DC Resistance (Ω)max. |
|-------------|----------------------------------|-----------------------|----------------------|---|--------------------------|--------------------------------|
| | Common Mode | | | | | |
| EXC34CE670U | 67 $\Omega \pm 25\%$ | 250 | 5 | 10 $M\Omega$ | 125 | 0.8 |
| EXC34CE900U | 90 $\Omega \pm 25\%$ | 250 | 5 | 10 $M\Omega$ | 125 | 0.8 |
| EXC34CE121U | 120 $\Omega \pm 25\%$ | 200 | 5 | 10 $M\Omega$ | 125 | 1.0 |
| EXC34CE201U | 200 $\Omega \pm 25\%$ | 200 | 5 | 10 $M\Omega$ | 125 | 1.0 |
| EXC34CG900U | 90 $\Omega \pm 25\%$ | 100 | 5 | 10 $M\Omega$ | 125 | 3.0 |

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

■ Impedance Characteristics (Typical)



■ Packaging Methods

Please see Page 235

■ Recommended Land Pattern Design,

Recommended Soldering Conditions, Δ Safety Precautions

Please see Page 236