Panasonic

2 mode Noise Filters

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Type: EXC24CB/CP EXC24CN

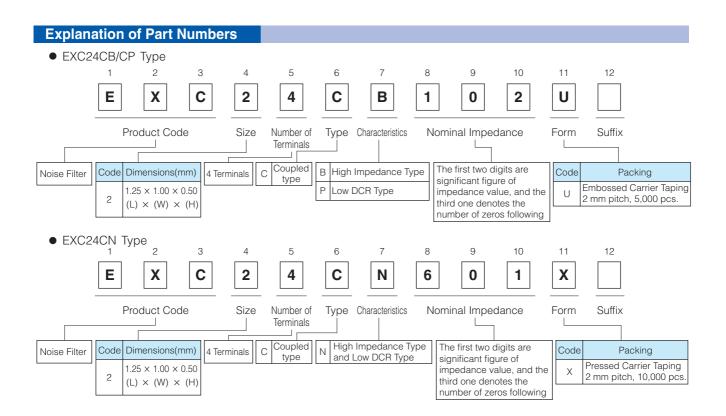


Features

- Burst/radiation noise filtering for audio circuits
- The optimally magnetic-coupled ferrite beads allow for the filtering of both common and normal mode noises
- The strong multi-layer structure provides high resistance to reflow soldering heat and a high mounting reliability
- Magnetic shield type
- High Impedance : 220 to 1 kΩ (EXC24CB type)
- Low Resistance Value : 0.4 Ω max. (EXC24CP type)
- High Impedance : 600 Ω , Low Resistance Value : 0.9 Ω max. (EXC24CN type)
- RoHS compliant

Recommended Applications

- Smart phones, Tablet PCs, DSC and Portable Music Player
- Noise suppression of burst noise of Receiver/Microphone and D-class power amplifier



Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

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Mass

(Weight) [mg/pc.]

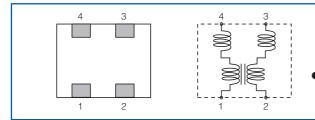
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Construction Dimensions in mm (not to scale) E Ferrite C B Dimensions (mm) Part No. (inch size) В А С D Electrode Inner Conductor EXC24C 1.00±0.15 1.25±0.15 0.50±0.10 0.20±0.15 0.65±0.10 0.35±0.10 (0504)

Circuit Configuration (No Polarity)



• The pin numbers shown here are for reference purposes only. Confirm the actual pin number arrangement with the exchanged specification documents.

Ratings

| Part Number | Impedance (0 (Ω) at 100 MHz | Dpen mode) Tolerance(%) | Rated Voltage (V DC) | Rated Current (mA DC) | DC Resistance (Ω) max. |
|-------------|--------------------------------|----------------------------|-------------------------|--------------------------|---------------------------|
| EXC24CP121U | 120 | - ±25 | 5 | 500 | 0.3 |
| EXC24CP221U | 220 | | | 350 | 0.4 |
| EXC24CB221U | 220 | | | 100 | 0.7 |
| EXC24CB102U | 1000 | | | 50 | 1.5 |

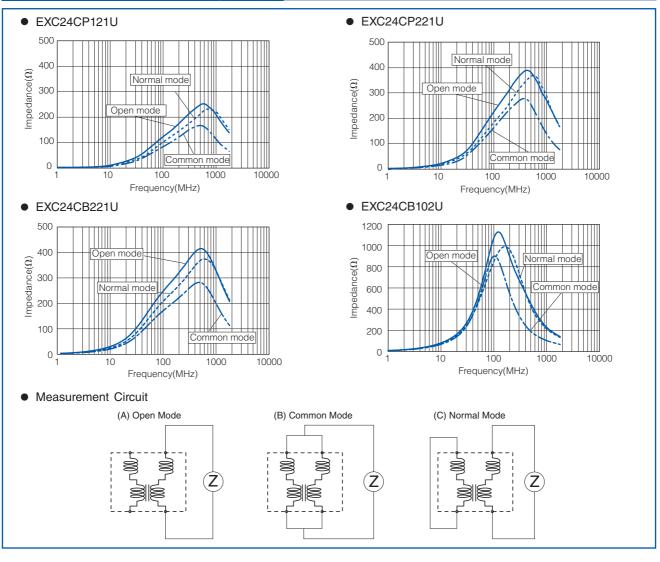
| Part Number | Impedance (Common mode) | | Rated Voltage | Rated Current | DC Resistance |
|-------------|-------------------------|--------------|---------------|---------------|-----------------|
| | (Ω) at 100 MHz | Tolerance(%) | (V DC) | (mA DC) | (Ω) max. |
| EXC24CN601X | 600 | ±25 | 5 | 200 | 0.9 |

• Category Temperature Range -40 °C to +85 °C

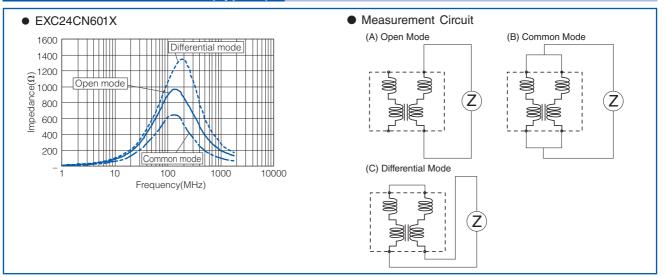
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Impedance Characteristics (Typical)



Attenuation Characteristics (Typical)



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

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Panasonic Common mode Noise Filters/Common mode Noise Filters with ESD Suppressor/2 mode Noise Filters

| Perfomance | | | | | | |
|------------------------------|----------------------------|---|--|--|--|--|
| 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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