Common mode Noise Filters

Type: **EXC24CE**
EXC24CF

Features

- Elimination of radiation noises from high-speed differential transmissions
- Strong multilayer structure, excellent reflow resistance and high mounting reliability
- Magnetic shield type with no leakage
- High-Q impedance : EXC24CF
- Small and thin (L 1.25 mm×W 1.00 mm×H 0.50 mm)
- RoHS compliant

Recommended Applications

- AV equipment (LCD-TV, DVD/Blu-ray drives), Information equipment (PCs, HDD, Printers), Communications equipment (Mobile phones, Smartphones)
- Noise suppression of high-speed differential data lines such as USB2.0 and LVDS

Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	X	C	2	4	C	E	9	0	0	U	
Product Code			Size	Number of Terminals	Type	Characteristics	Nominal Impedance			Form	Suffix

Product Code: Noise Filter

Size

Code	Dimensions(mm)
2	1.25 × 1.00 × 0.50 (L) × (W) × (H)

Number of Terminals: 4 Terminals

Type

C	Coupled type

Characteristics

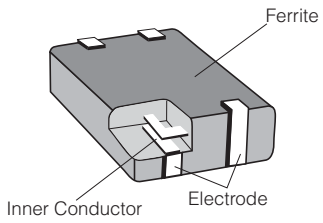
E	High speed Differential transmission (for Mbps)
F	High speed Differential transmission (for Mbps) High-Q type

Nominal Impedance: The first two digits are significant figure of impedance value, and the third one denotes the number of zeros following

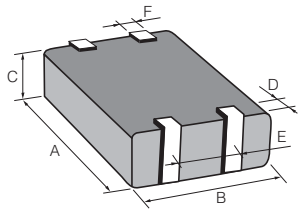
Form

Code	Packing
U	Embossed Carrier Taping 4 mm pitch, 5,000 pcs.

Construction

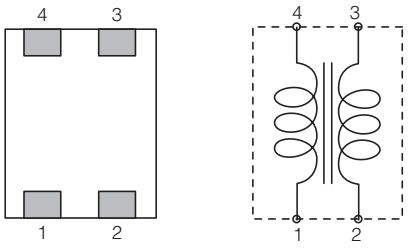


Dimensions in mm (not to scale)



Part No. (inch size)	Dimensions (mm)						Mass (Weight) [mg/pc.]
	A	B	C	D	E	F	
EXC24CE/CF (0504)	1.25±0.15	1.00±0.15	0.50±0.10	0.20±0.15	0.55±0.10	0.30±0.10	3

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.

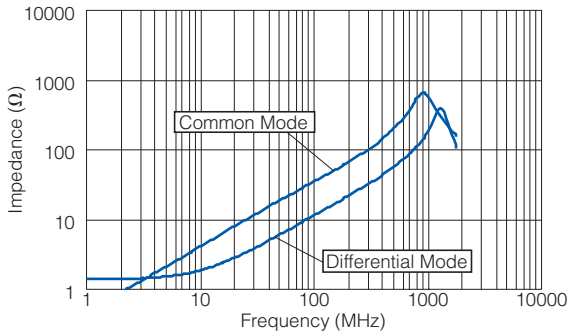
Ratings

Part Number	Impedance (Ω) at 100 MHz		Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance (Ω)max.
	Common Mode	Differential Mode			
EXC24CE360UP	36 Ω±25 %	20 Ω max.	5	200	1.0
EXC24CE900U	90 Ω±25 %	15 Ω max.	5	160	1.75
EXC24CE121U	120 Ω±25 %	18 Ω max.	5	140	2.2
EXC24CE201U	200 Ω±25 %	20 Ω max.	5	130	2.7
EXC24CF900U	90 Ω±25 %	20 Ω max.	5	130	2.5

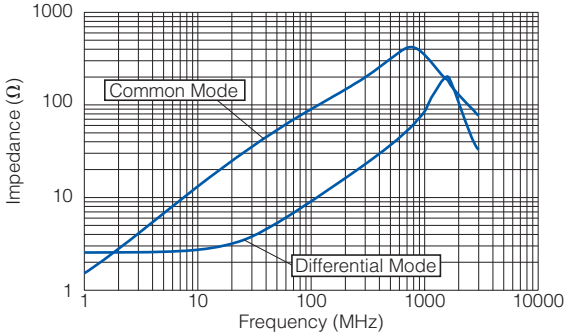
- Category Temperature Range –40 °C to +85 °C

Impedance Characteristics (Typical)

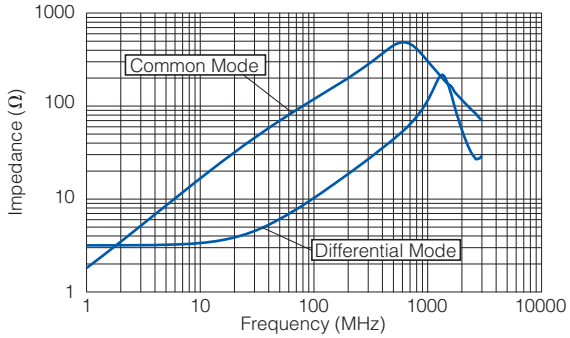
- EXC24CE360UP



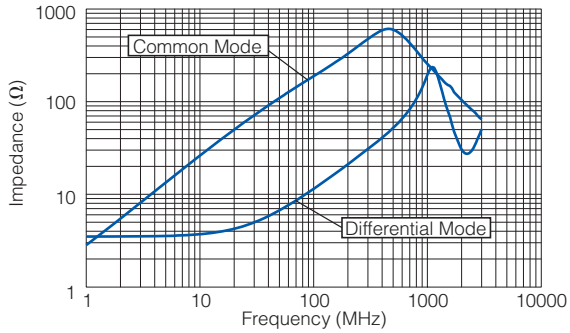
- EXC24CE900U



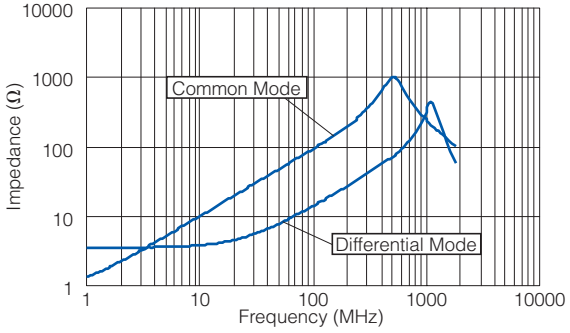
- EXC24CE121U



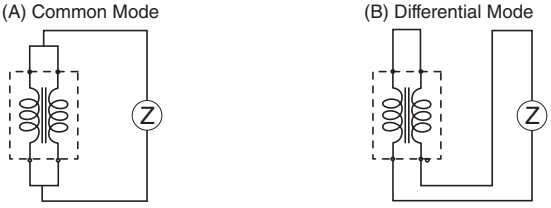
- EXC24CE201U



- EXC24CF900U



- Measurement Circuit



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