Common mode Noise Filters

Type: **EXC24CH**

Features

- Small and thin type, built-in filter circuit (L 1.25 mm×W 1.00 mm×H 0.50 mm)
- Suppression of high frequency noise with little influence of waveform rounding on signal transmission, achieved by setting high cut-off frequency between 6 and 10 GHz
- Strong multilayer/sintered structure, excellent reflow resistance and high mounting reliability
- Lead, halogen and antimony-free
- RoHS compliant

Recommended Applications

- AV equipment (LCD-TV, DVD/Blu-ray drives), Information equipment (PCs, HDD), Communications equipment (Mobile phones, Smartphones)
- Noise suppression of high-speed differential data lines such as USB 3.0, HDMI and Display Port

Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	X	C	2	4	C	H	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

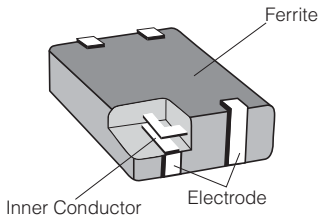
H	High speed Differential transmission (for Gbps)

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

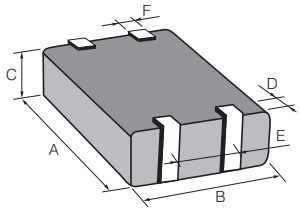
Form

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

Construction

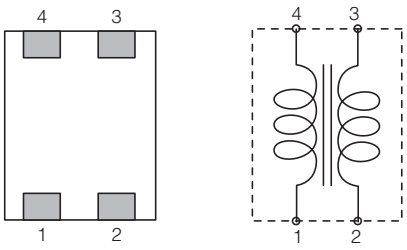


Dimensions in mm (not to scale)



Part No. (inch size)	Dimensions (mm)						Mass (Weight) [mg/pc.]
	A	B	C	D	E	F	
EXC24CH (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)



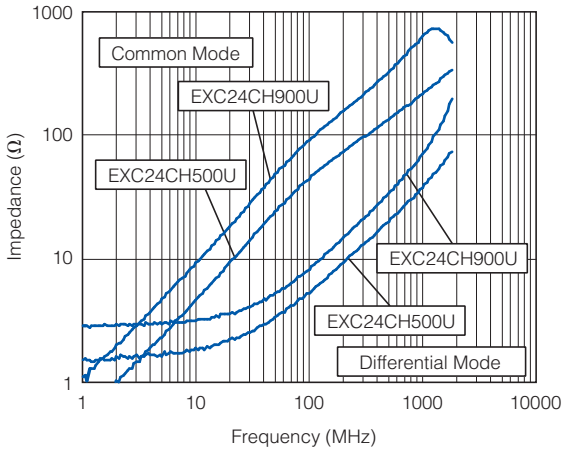
- The pin numbers shown here are for reference purposes only. Confirm the actual pin number arrangement with the exchanged specification documents.

Ratings

Part Number	Impedance (Ω) at 100 MHz		Cutoff Frequency (GHz)	Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance (Ω)max.
	Common Mode	Differential Mode				
EXC24CH500U	50 Ω±25 %	13 Ω max.	10 Typ.	5	160	1.5
EXC24CH900U	90 Ω±20 %	15 Ω max.	6 Typ.	5	130	2.5

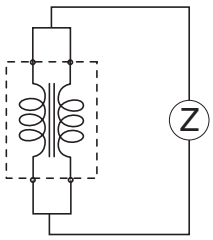
● Category Temperature Range –40 °C to +85 °C

Impedance Characteristics (Typical)

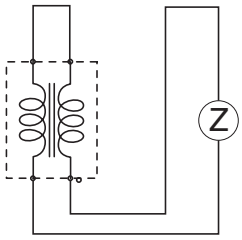


● Measurement Circuit

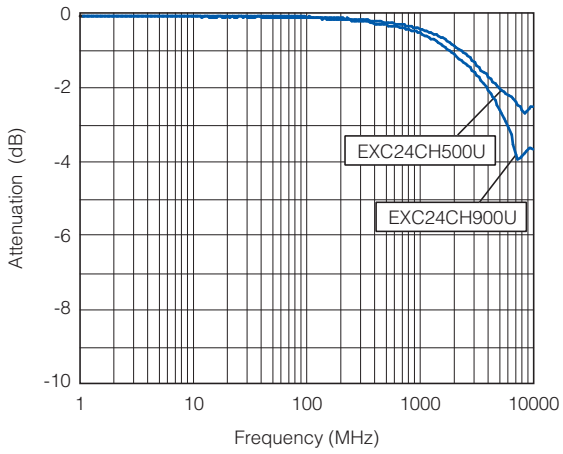
(A) Common Mode



(B) Differential Mode



Insertion Loss (Typical)



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