



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Common mode Noise Filters

Type: **EXCX4CH**



Features

- Small and thin (L 0.65 mm×W 0.50 mm×H 0.30 mm)
- High common mode attenuation in high-speed differential transmission lines, Cut-off frequency is more than 8.5 GHz, and an influence to differential transmission signal quality is little
- Strong multilayer/sintered structure, excellent reflow resistance and high mounting reliability
- Lead, halogen and antimony-free
- RoHS compliant

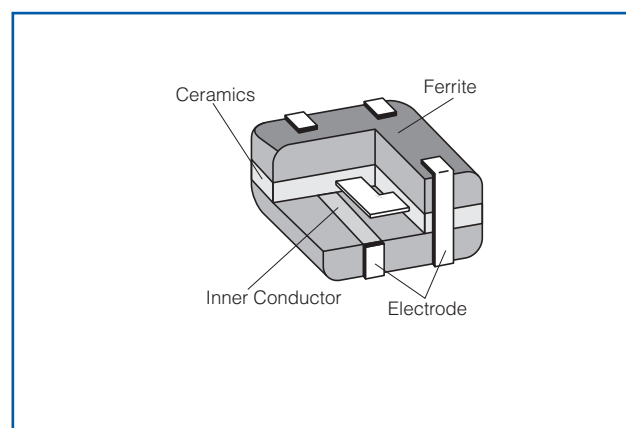
Recommended Applications

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

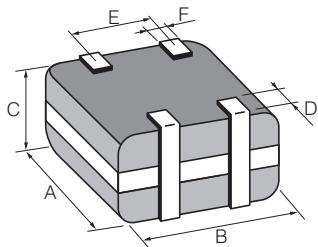
Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	X	C	X	4	C	H	3	5	0	X	
Product Code			Size	Number of Terminals	Type	Characteristics	Nominal Impedance			Form	Suffix
Noise Filter	Code	Dimensions(mm)	4 Terminals	C	Coupled type	H	High speed Differential transmission			The first two digits are significant figure of impedance value, and the third one denotes the number of zeros following	
	X	0.65 × 0.50 × 0.30 (L) × (W) × (H)								Code	Packing
										X	Pressed Carrier Taping 2 mm pitch, 10,000 pcs.

Construction

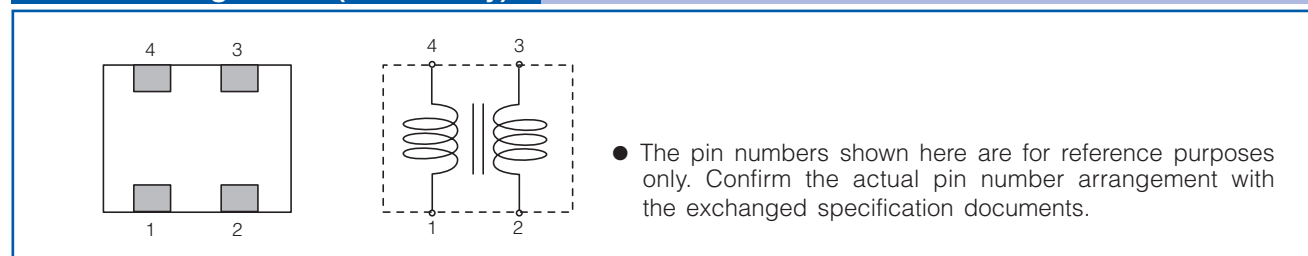


Dimensions in mm (not to scale)



Part No. (inch size)	Dimensions (mm)						Mass (Weight) [mg/pc.]
	A	B	C	D	E	F	
EXCX4CH (0202)	0.50±0.05	0.65±0.05	0.30±0.05	0.12±0.10	0.40±0.10	0.15±0.10	0.43

Circuit Configuration (No Polarity)



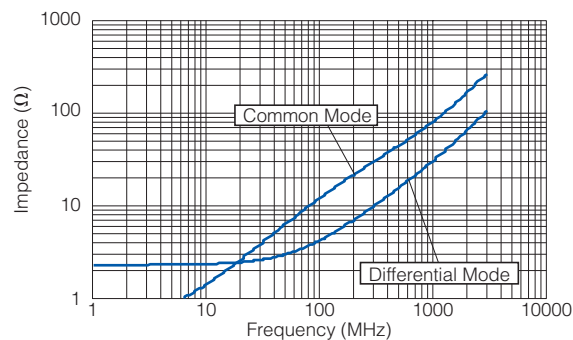
Ratings

Part Number	Impedance (Ω) at 100 MHz	Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance (Ω)max.
	Common Mode			
EXCX4CH120X	12 $\Omega \pm 5 \Omega$	5	100	2.0
EXCX4CH350X	35 $\Omega \pm 30 \%$	5	100	2.7

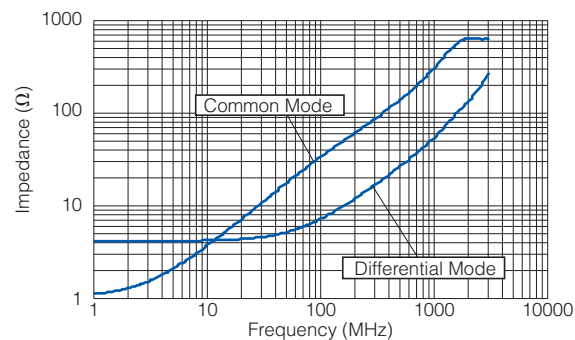
- Category Temperature Range -40°C to $+85^\circ\text{C}$

Impedance Characteristics (Typical)

EXCX4CH120X

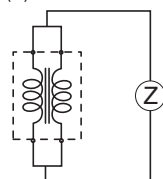


EXCX4CH350X

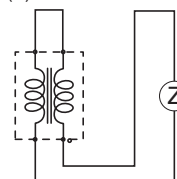


Measurement Circuit

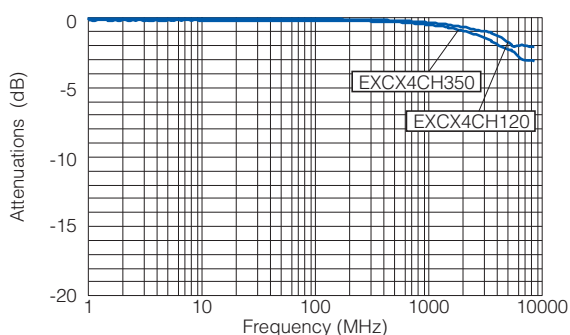
(A) Common Mode



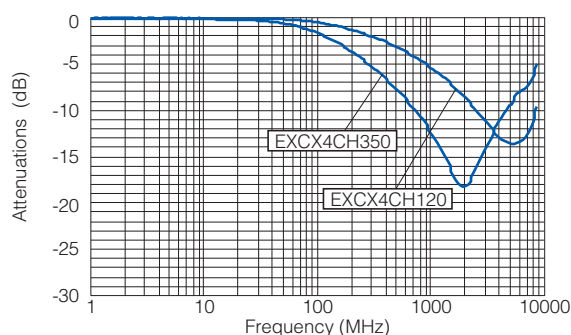
(B) Differential Mode



Insertion Loss (Typical)



Common mode Attenuation Characteristics (Typical)



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