Common mode Noise Filters

Type: EXC14CH

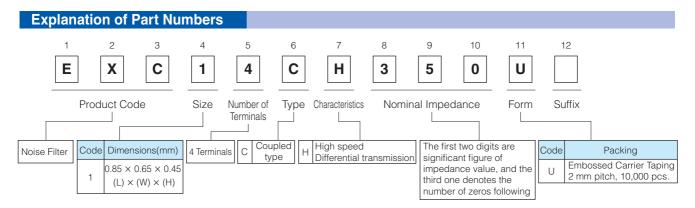


Features

- Small and thin (L 0.85 mm×W 0.65 mm×H 0.45 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

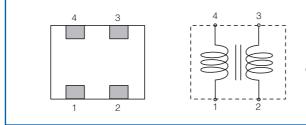
Recommended Applications

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



Construction Dimensions in mm (not to scale) Ferrite Ceramics Inner Conductor Dimensions (mm) Mass Electrode Part No (Weight) (inch size) А В С D Е F [mg/pc.] EXC14CH 0.65±0.05 0.10 min. 0.50±0.10 0.85±0.05 0.45±0.05 0.27±0.10 1.0 (0302)

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.

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.

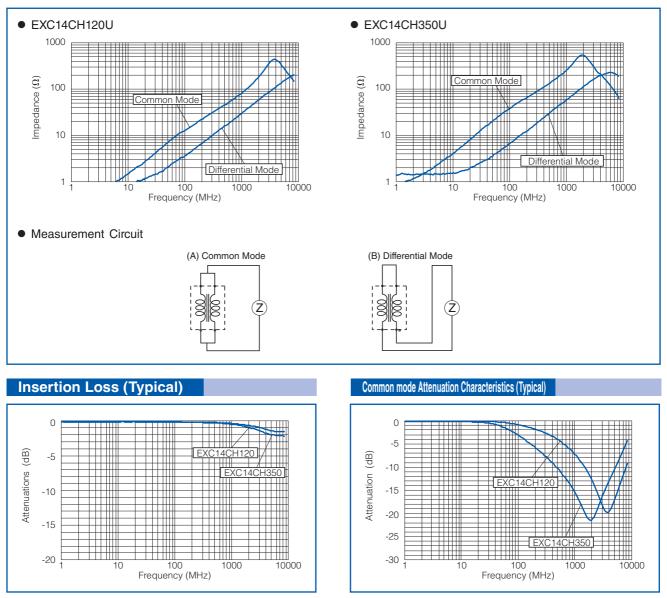
Panasonic

Common mode Noise Filters

Tatingo					
Part Number	Impedance (Ω) at 100 MHz		Rated Voltage	Rated Current	DC Resistance
	Common Mode	Differential Mode	(V DC)	(mA DC)	(Ω) max.
EXC14CH120U	12 Ω±25 %	10 Ω max.	5	100	1.0
EXC14CH350U	35 Ω±30 %	15 Ω max.	5	100	1.5

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

Impedance Characteristics (Typical)



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

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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