## **Common mode Noise Filters**

## Type: **EXC24CG**

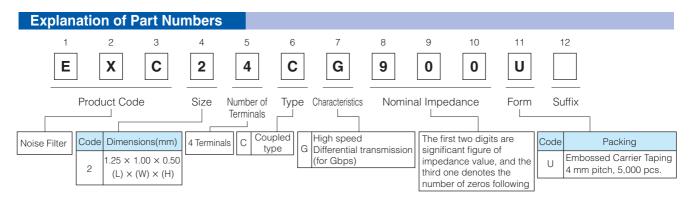


#### Features

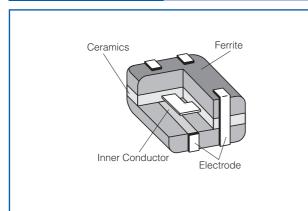
- Elimination of radiation noises from high-speed differential transmissions
- $\bullet$  Prevention of reflection of transmission signals and noise radiation by controlling TDR characteristic impedance as 100  $\Omega$
- Satisfaction of eye pattern standards of HDMI waveforms with capability to improve waveform fluctuations of skew and overshoot
- Simple multilayer structure, excellent mass productivity and high reliability
- Small and thin (L 1.25 mm×W 1.00 mm×H 0.50 mm)
- RoHS compliant

#### **Recommended Applications**

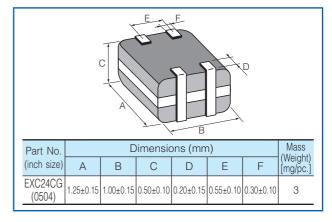
- AV equipment (LCD-TV, DVD/Blu-ray drives), Information equipment (PCs, HDD), Communications equipment (Mobile phones, Smartphones)
- Noise suppression of high-speed differential data lines such as HDMI, SATA and LAN



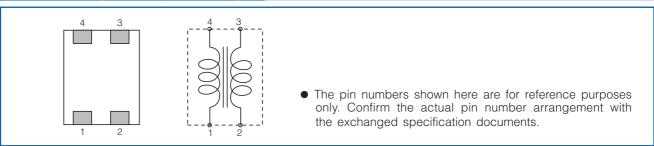
#### Construction



#### Dimensions in mm (not to scale)



#### Circuit Configuration (No Polarity)



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.

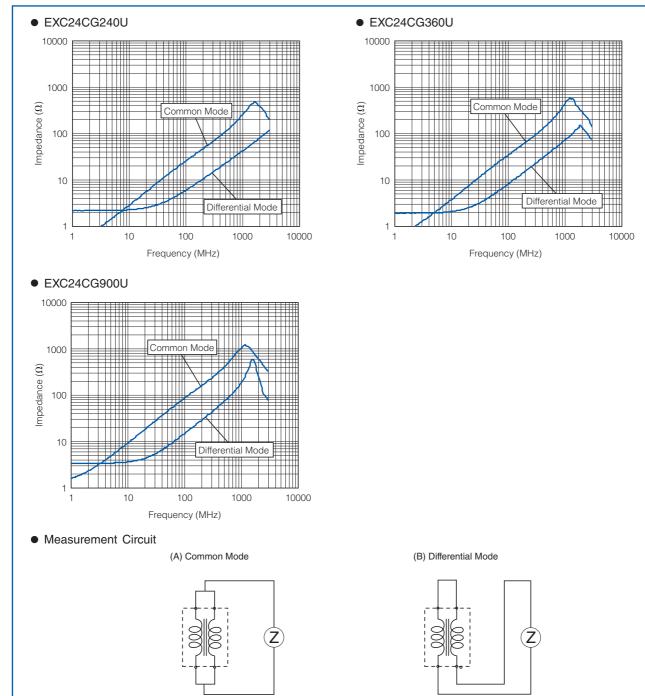
# **Panasonic**

## **Common mode Noise Filters**

Ratings						
Part Number	Impedance ( $\Omega$ ) at 100 MHz		Rated Voltage	Rated Current	DC Resistance	
	Common Mode	Differential Mode	(V DC)	(mA DC)	$(\Omega)$ max.	
EXC24CG240U	24 Ω±25 %	15 $\Omega$ max.	5	160	1.5	
EXC24CG360U	36 Ω±25 %	15 $\Omega$ max.	5	130	1.7	
EXC24CG900U	90 Ω±25 %	20 $\Omega$ max.	5	100	3.0	

• 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

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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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- The quality and performance of our products as described in this online catalog only apply to our products when used in isolation. Therefore, please ensure you evaluate and verify our products under the specific circumstances in which our products are assembled in your own products and in which our products will actually be used.
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