Common mode Noise Filters

Type: **EXC24CG**

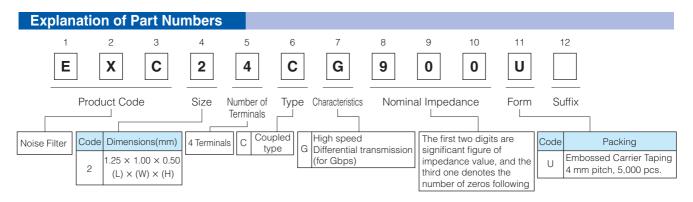


Features

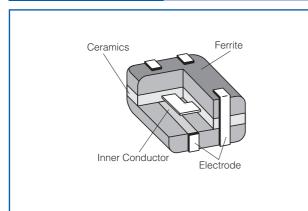
- Elimination of radiation noises from high-speed differential transmissions
- \bullet Prevention of reflection of transmission signals and noise radiation by controlling TDR characteristic impedance as 100 Ω
- Satisfaction of eye pattern standards of HDMI waveforms with capability to improve waveform 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

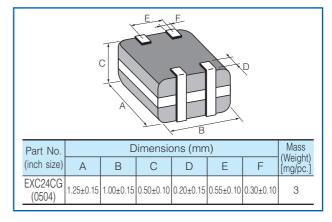
- AV equipment (LCD-TV, DVD/Blu-ray drives), Information equipment (PCs, HDD), Communications equipment (Mobile phones, Smartphones)
- Noise suppression of high-speed differential data lines such as HDMI, SATA and LAN



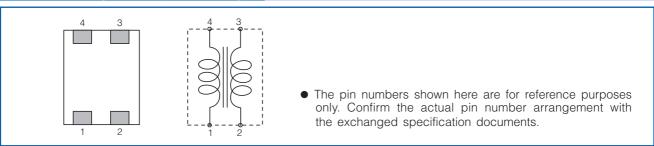
Construction



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.

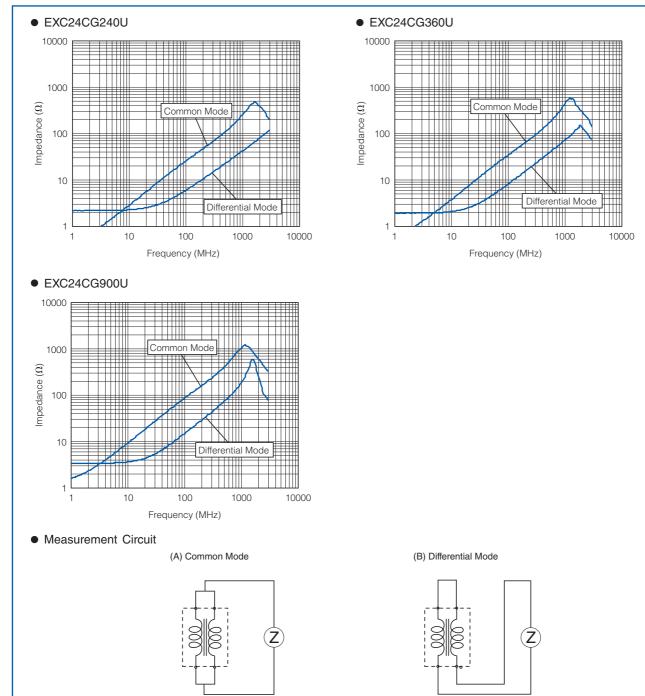
Panasonic

Common mode Noise Filters

Ratings						
Part Number	Impedance (Ω) at 100 MHz		Rated Voltage	Rated Current	DC Resistance	
	Common Mode	Differential Mode	(V DC)	(mA DC)	(Ω) max.	
EXC24CG240U	24 Ω±25 %	15 Ω max.	5	160	1.5	
EXC24CG360U	36 Ω±25 %	15 Ω max.	5	130	1.7	
EXC24CG900U	90 Ω±25 %	20 Ω 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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- If you want to use our products described in this online catalog for applications requiring special qualities or reliability, or for applications where the failure or malfunction of the products may directly jeopardize human life or potentially cause personal injury (e.g. aircraft and aerospace equipment, traffic and transportation equipment, combustion equipment, medical equipment, accident prevention, anti-crime equipment, and/or safety equipment), it is necessary to verify whether the specifications of our products fit to such applications. Please ensure that you will ask and check with our inquiry desk as to whether the specifications of our products.
- 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.
- If you use our products in equipment that requires a high degree of reliability, regardless of the application, it is recommended that you set up protection circuits and redundancy circuits in order to ensure safety of your equipment.
- The products and product specifications described in this online catalog are subject to change for improvement without prior notice. Therefore, please be sure to request and confirm the latest product specifications which explain the specifications of our products in detail, before you finalize the design of your applications, purchase, or use our products.
- The technical information in this online catalog provides examples of our products' typical operations and application circuits. We do not guarantee the non-infringement of third party's intellectual property rights and we do not grant any license, right, or interest in our intellectual property.
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- The switchover date for compliance with the RoHS Directive/REACH Regulations varies depending on the part number or series of our products.
- When you use the inventory of our products for which it is unclear whether those products are compliant with the RoHS Directive/REACH Regulation, please select "Sales Inquiry" in the website inquiry form and contact us.

We do not take any responsibility for the use of our products outside the scope of the specifications, descriptions, guidelines and precautions described in this online catalog.