

Common mode Noise Filters

Type: **EXC24CG**



Features

- Elimination of radiation noises from high-speed differential transmissions
- 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

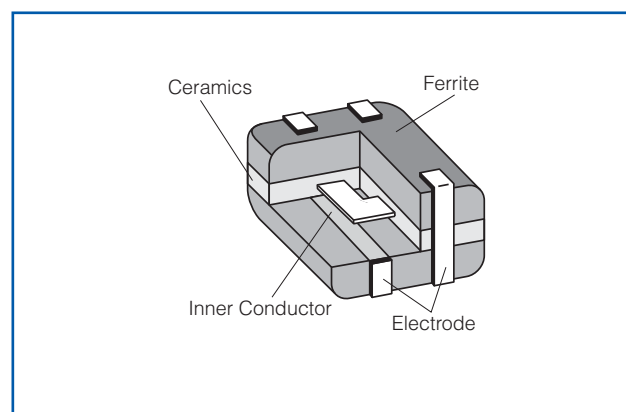
Recommended Applications

- 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

Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	X	C	2	4	C	G	9	0	0	U	
Product Code			Size	Number of Terminals	Type	Characteristics	Nominal Impedance			Form	Suffix
Noise Filter	Code	Dimensions(mm)	4 Terminals	C	Coupled type	G	High speed Differential transmission (for Gbps)			The first two digits are significant figure of impedance value, and the third one denotes the number of zeros following	
	2	1.25 × 1.00 × 0.50 (L) × (W) × (H)								Code	Packing
										U	Embossed Carrier Taping 4 mm pitch, 5,000 pcs.

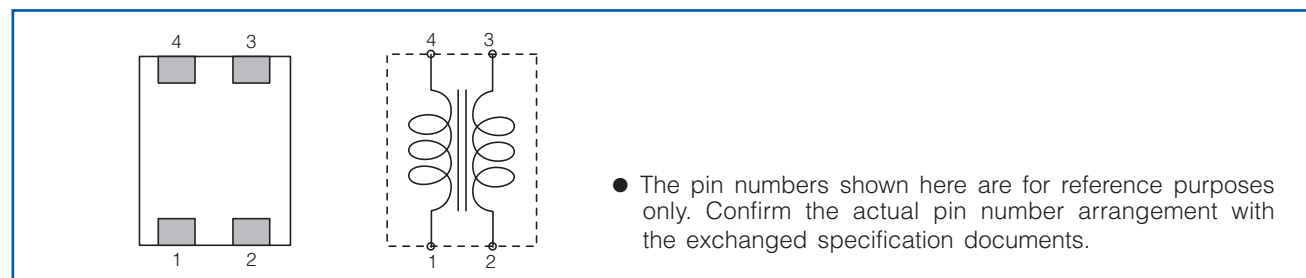
Construction



Dimensions in mm (not to scale)

Part No. (inch size)	Dimensions (mm)						Mass (Weight) [mg/pc.]
	A	B	C	D	E	F	
EXC24CG (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)



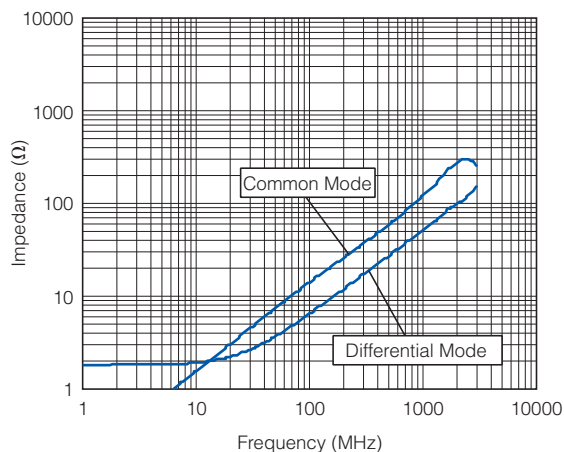
Ratings

Part Number	Impedance (Ω) at 100 MHz		Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance (Ω)max.
	Common Mode	Differential Mode			
EXC24CG120U	12 $\Omega \pm 30\%$	15 Ω max.	5	160	1.5
EXC24CG240U	24 $\Omega \pm 25\%$	15 Ω max.	5	160	1.5
EXC24CG360U	36 $\Omega \pm 25\%$	15 Ω max.	5	130	1.7
EXC24CG900U	90 $\Omega \pm 25\%$	20 Ω max.	5	100	3.0

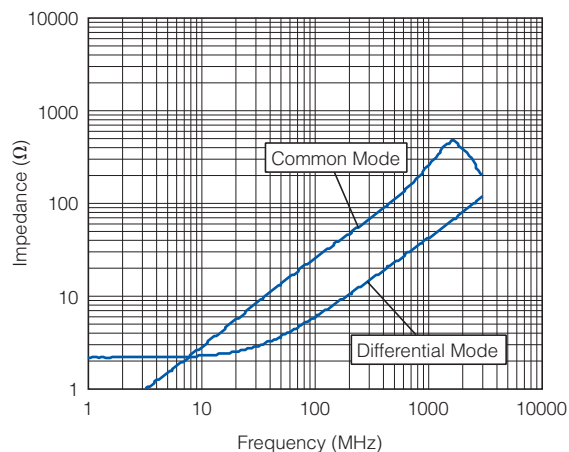
- Category Temperature Range $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$

Impedance Characteristics (Typical)

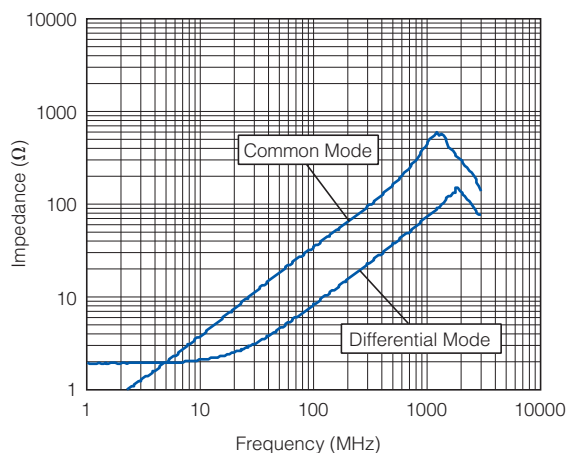
● EXC24CG120U



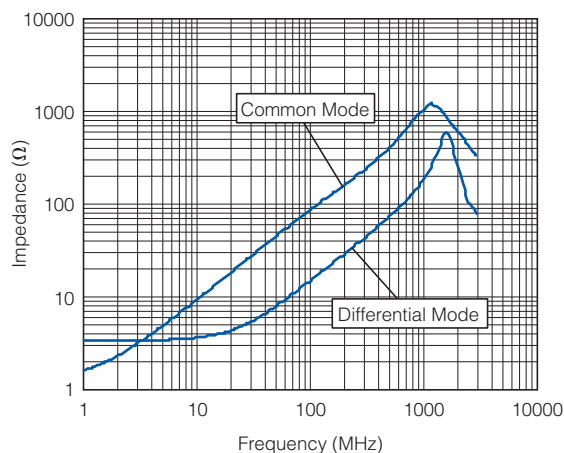
● EXC24CG900U



● EXC24CG360U

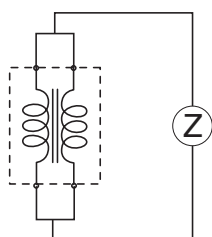


● EXC24CG900U

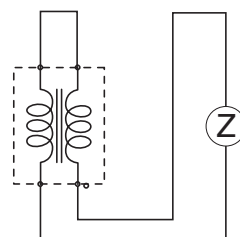


● Measurement Circuit

(A) Common Mode



(B) Differential Mode



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

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Panasonic:

[EXC-24CG240U](#) [EXC-24CG900U](#)