

Common mode Noise Filter Array

Type: **EXC28CG**



■ Features

- 2 Common mode noise filters in one package
- Small size and low-profile(L 2.0 mm×W 1.0 mm×H 0.5 mm)
- The 3 GHz or wider signal pass band prevents rounding of transmitted signal waveforms.
- The TDR value is controlled to 100 Ω (typ.), preventing transmission signal reflection
- The filter passed the HDMI eye pattern test, and was improved against jitters, phase shifting, and other waveform deformations.
- Reduce the common mode noise and reform the signal wave by high-coupled inductors
- Magnetic shield type
- RoHS compliant

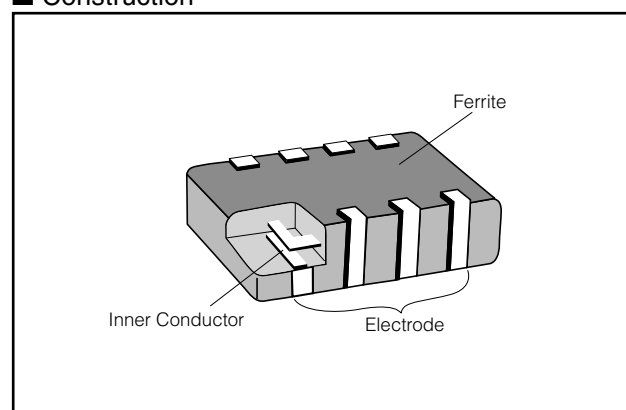
■ Recommended Applications

- HDMI data lines such as TV, STB, DVD, DVC.
- S-ATA data lines such as PCs , HDD.

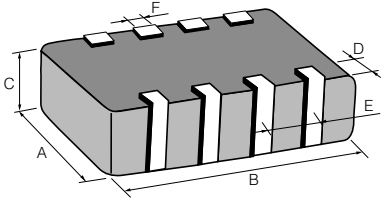
■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	X	C	2	8	C	G	9	0	0	U	
Product Code			Size	Number of Terminals	Type	Characteristics	Nominal Impedance			Form	Suffix
Noise Filter	Code	Dimensions(mm)	8 Terminals	C	Coupled type	G	The first two digits are significant figure of impedance value, and the third one denotes the number of zeros following			Code	Packing
	2	2.0 × 1.0 × 0.5 (L) × (W) × (H)				High speed Differential transmission (for Gbps)				U	Embossed Carrier Taping 4 mm pitch, 5,000 pcs.

■ Construction

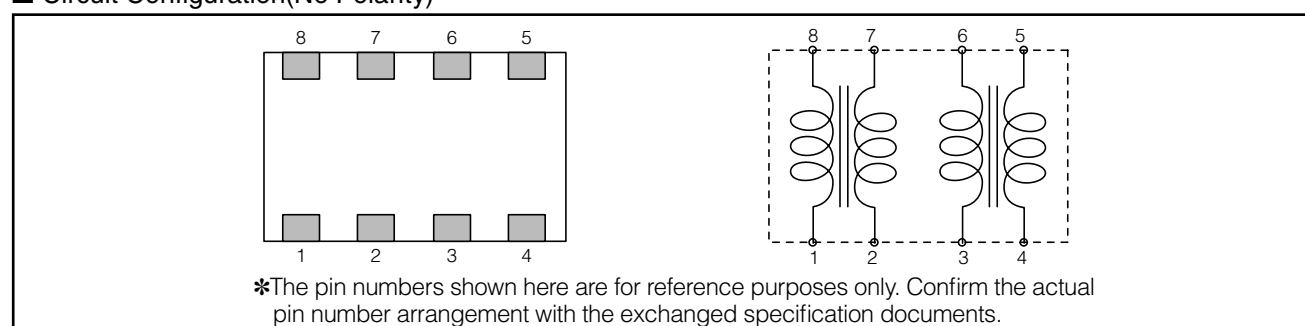


■ Dimensions in mm (not to scale)



Type (inch size)	Dimensions (mm)						Mass (Weight) [mg/pc.]
	A	B	C	D	E	F	
EXC28CG (0804)	1.00±0.15	2.0±0.2	0.5±0.1	0.20±0.15	0.5±0.1	0.25±0.10	5

■ Circuit Configuration(No Polarity)



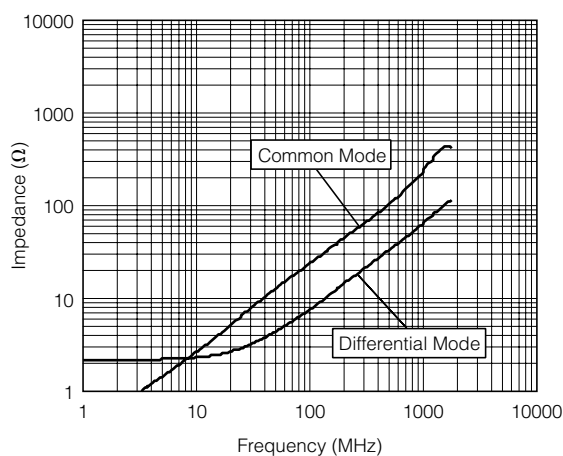
■ Ratings

Part Number	Impedance (Ω) at 100 MHz		Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance (Ω)max.
	Common Mode	Differential Mode			
EXC28CG240U	24 Ω $\pm$ 25 %	15 Ω max.	5	160	1.5
EXC28CG900U	90 Ω $\pm$ 25 %	17 Ω max.	5	130	3.0

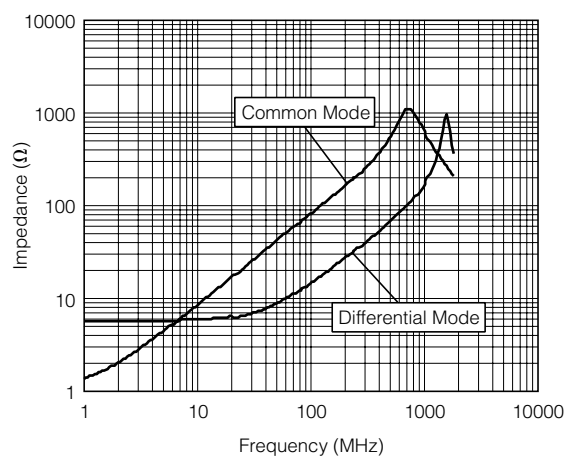
- Category Temperature Range -40°C to $+85^{\circ}\text{C}$

■ Impedance Characteristics (Typical)

● EXC28CG240U

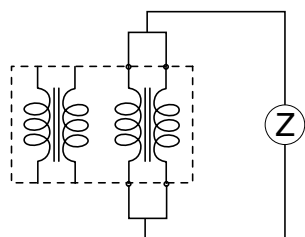


● EXC28CG900U

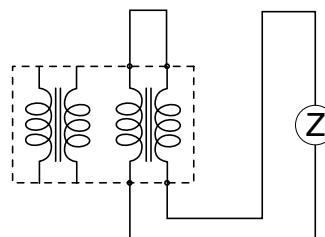


● Measurement Circuit

(A) Common Mode



(B) Differential Mode



■ Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions

Please see Related Information