Common mode Noise Filter Array

Type: **EXC28CE**

■ 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)
- Reduce the common mode noise and reform the signal wave by high-coupled inductors
- Magnetic shield type
- Rigidly layered and sintered structure with high resistance to reflow heat and mounting reliability
- Lead, halogen, and antimony free
- RoHS compliant

■ Recommended Applications

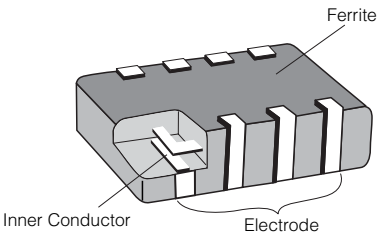
- IEEE1394 data lines such as PCs, DVC, TV.
- LVDS data lines such as PCs, TV.

■ Explanation of Part Numbers

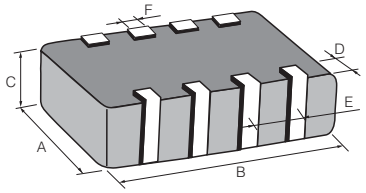
1	2	3	4	5	6	7	8	9	10	11	12
E	X	C	2	8	C	E	9	0	0	U	
Product Code			Size	Number of Terminals	Type	Characteristics	Nominal Impedance			Form	Suffix

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

■ Construction

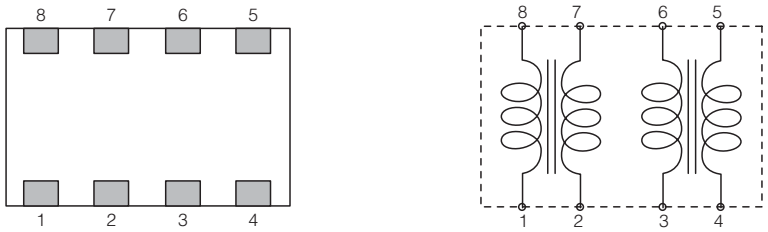


■ Dimensions in mm (not to scale)



Type (inch size)	Dimensions (mm) A	B	C	D	E	F	Mass (Weight) [mg/pc.]
EXC28CE (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)



✻The pin numbers shown here are for reference purposes only. Confirm the actual pin number arrangement with the exchanged specification documents.

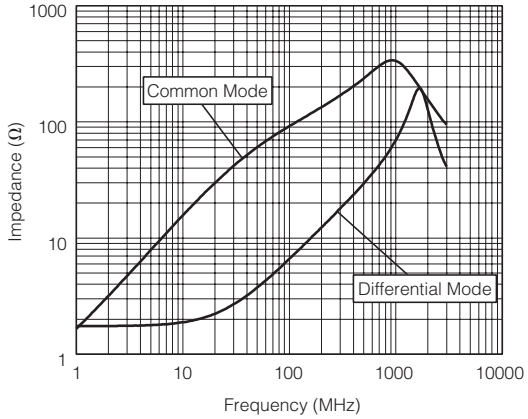
■ Ratings

Part Number	Impedance (Ω) at 100 MHz		Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance (Ω) max.
	Common Mode	Differential Mode			
EXC28CE900U	90 Ω±25 %	15 Ω max.	5	160	1.5
EXC28CE121U	120 Ω±25 %	18 Ω max.	5	140	2.0
EXC28CE201U	200 Ω±25 %	20 Ω max.	5	130	2.5
EXC28CE301U	300 Ω±25 %	30 Ω max.	5	80	5.0

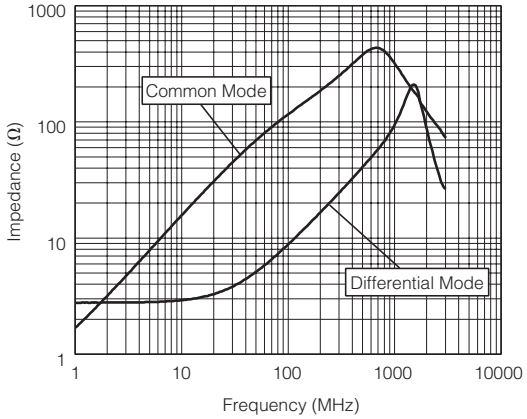
● Category Temperature Range –40 °C to +85 °C

■ Impedance Characteristics (Typical)

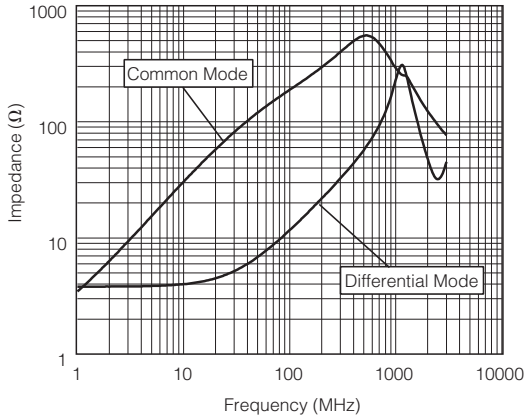
● EXC28CE900U



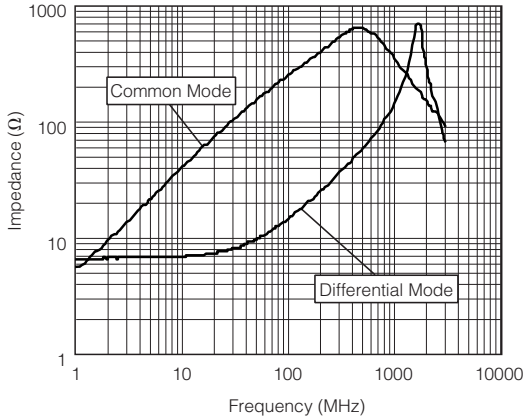
● EXC28CE121U



● EXC28CE201U

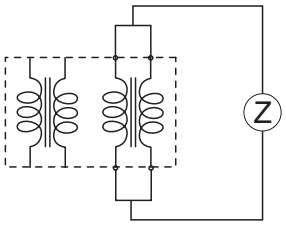


● EXC28CE301U

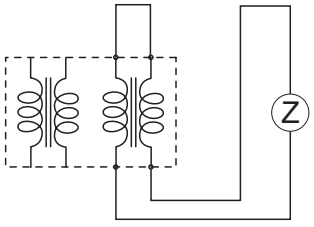


● Measurement Circuit

(A) Common Mode



(B) Differential Mode



■ Packaging Methods Please see Page 235

■ Recommended Land Pattern Design,
Recommended Soldering Conditions, ⚠Safety Precations Please see Page 236