



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Common mode Noise Filters

Type: **EXC14CG**  
**EXC14CE**



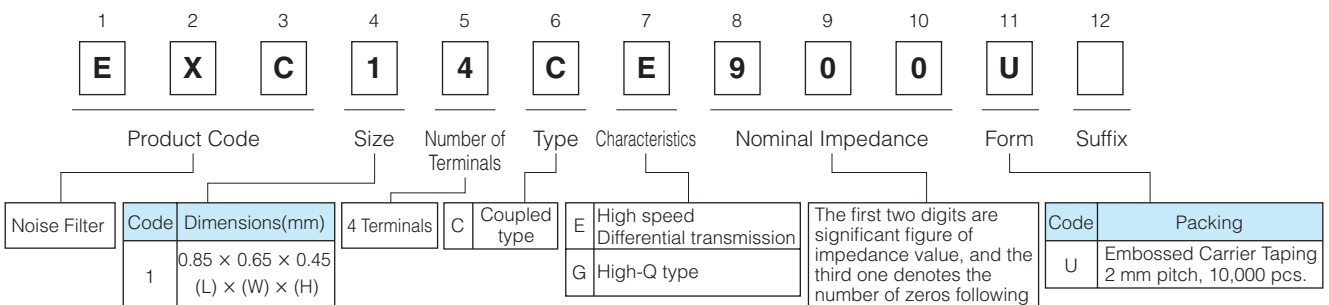
### Features

- Small and thin (L 0.85 mm×W 0.65 mm×H 0.45 mm)
- Noise suppression of high-speed differential transmission lines with little influence of waveform rounding on signal transmission
- Low DC resistance and low insertion loss
- High-Q value and high impedance of GHz zone : EXC14CG type
- Strong multilayer/sintered structure, excellent reflow resistance and high mounting reliability
- Lead, halogen and antimony-free
- RoHS compliant

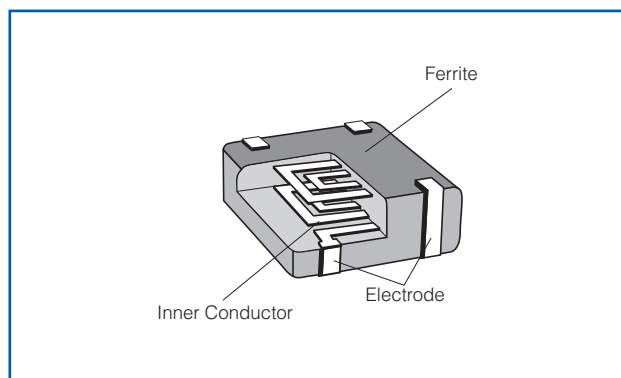
### Recommended Applications

- Smartphones, Tablet PCs and DSC
- Noise suppression of high-speed differential data lines such as USB, LVDS and MHL

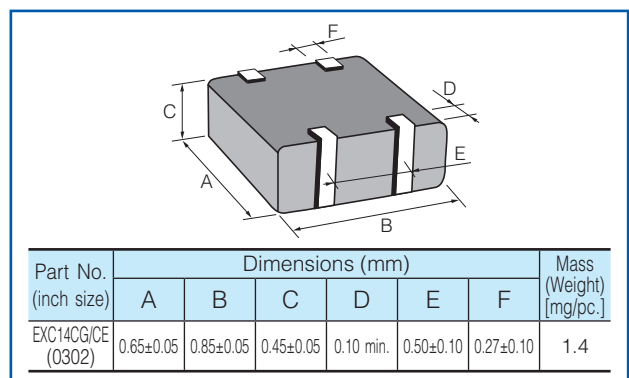
### Explanation of Part Numbers



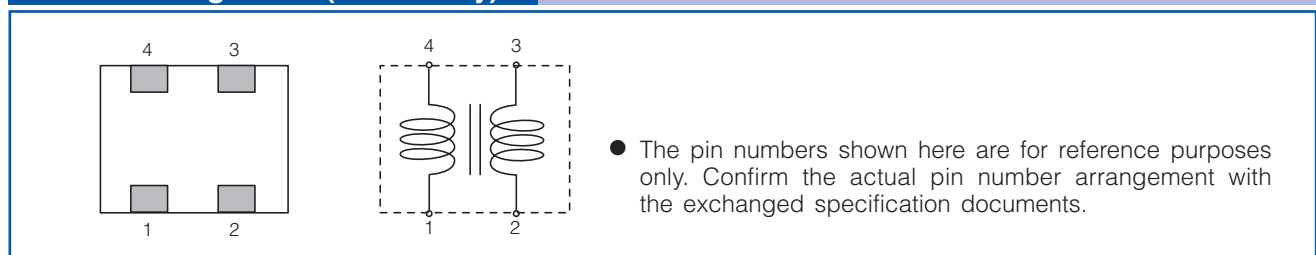
### Construction



### Dimensions in mm (not to scale)



### Circuit Configuration(No Polarity)



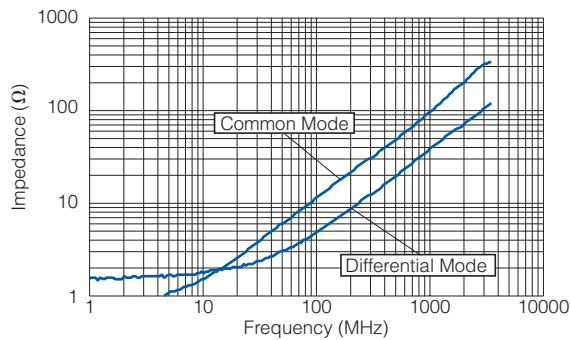
## Ratings

Part Number	Impedance ( $\Omega$ ) at 100 MHz		Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance ( $\Omega$ )max.
	Common Mode	Differential Mode			
EXC14CG120U	12 $\Omega \pm 30\%$	10 $\Omega$ max.	5	130	2.0
EXC14CG350U	35 $\Omega \pm 30\%$	15 $\Omega$ max.	5	100	2.0
EXC14CG430U	43 $\Omega \pm 25\%$	15 $\Omega$ max.	5	100	2.7
EXC14CE650U	65 $\Omega \pm 20\%$	20 $\Omega$ max.	5	130	2.5
EXC14CE900U	90 $\Omega \pm 20\%$	20 $\Omega$ max.	5	130	2.5
EXC14CE121U	120 $\Omega \pm 20\%$	20 $\Omega$ max.	5	100	3.8

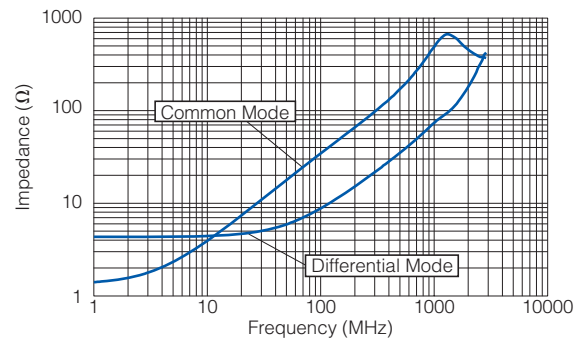
- Category Temperature Range  $-40\text{ }^{\circ}\text{C}$  to  $+85\text{ }^{\circ}\text{C}$

## Impedance Characteristics (Typical)

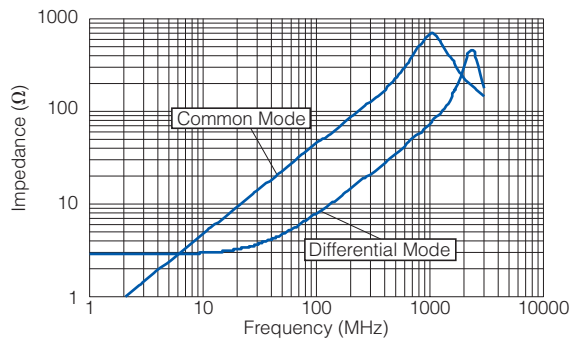
### ● EXC14CG120U



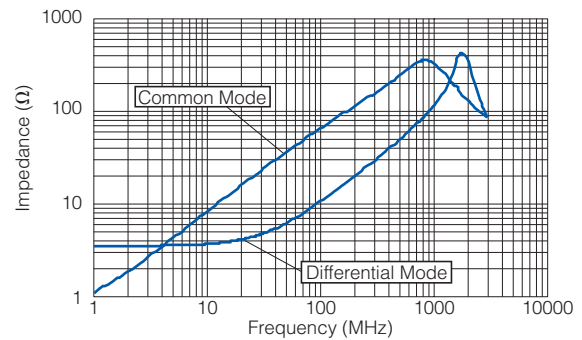
### ● EXC14CG350U



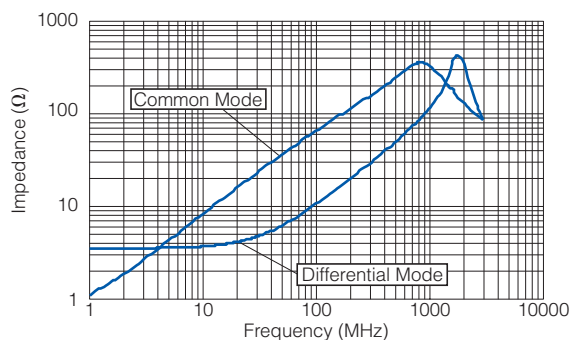
### ● EXC14CG430U



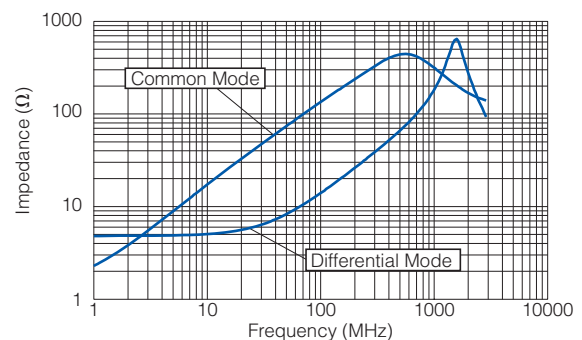
### ● EXC14CE650U



### ● EXC14CE900U

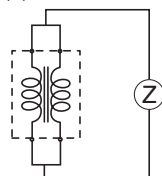


### ● EXC14CE121U

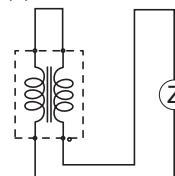


### ● Measurement Circuit

(A) Common Mode

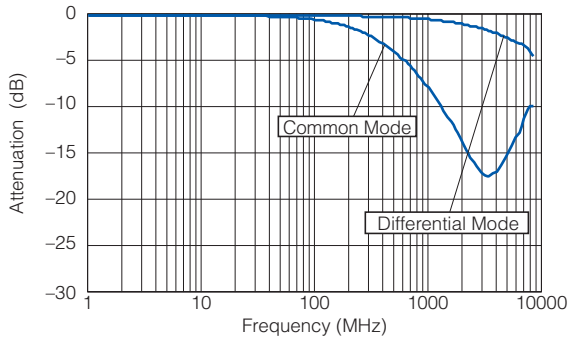


(B) Differential Mode

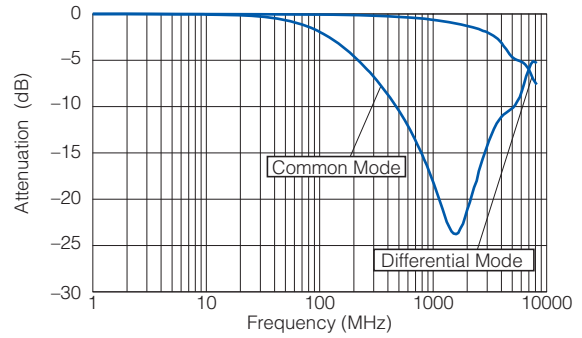


## Attenuation Characteristics (Typical)

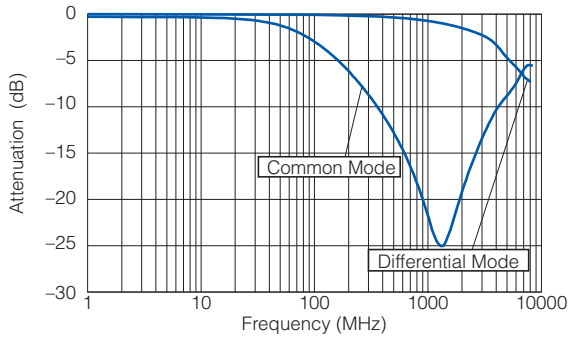
● EXC14CG120U



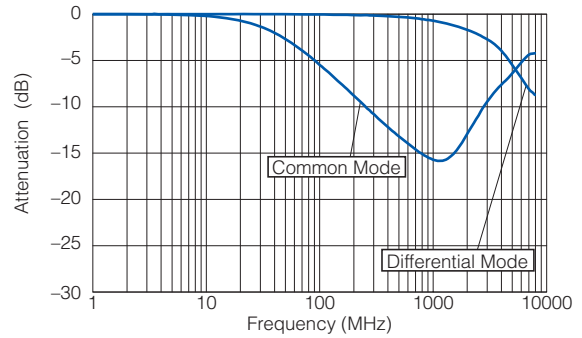
● EXC14CG350U



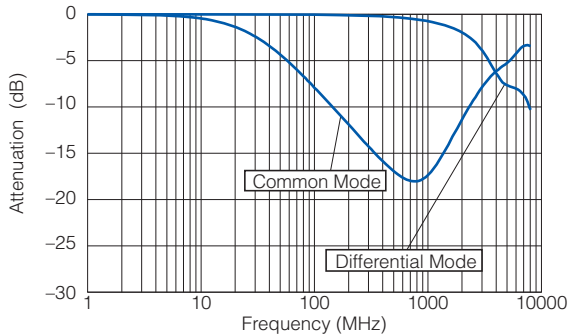
● EXC14CG430U



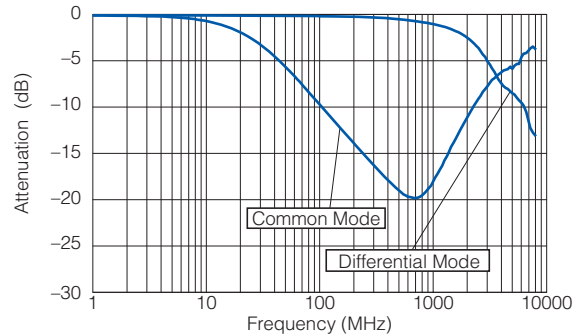
● EXC14CE650U



● EXC14CE900U



● EXC14CE121U



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