

## Common mode Noise Filters

Type: **EXC14CH**



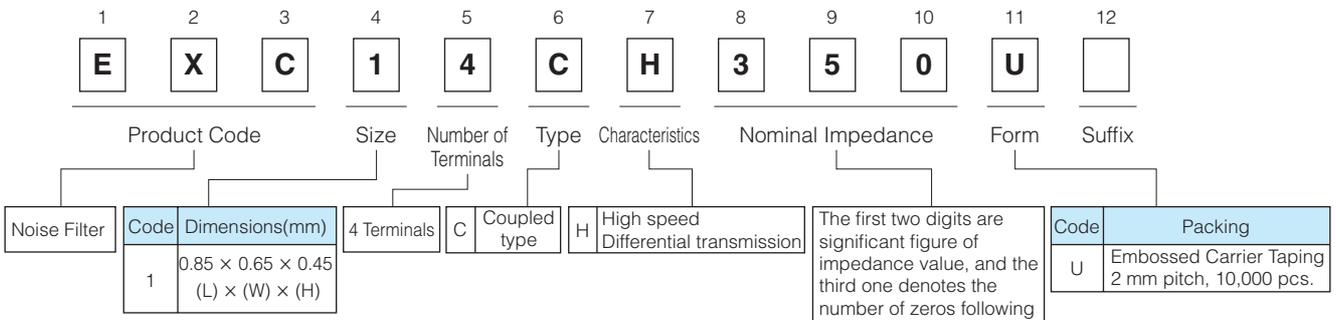
### Features

- Small and thin (L 0.85 mm×W 0.65 mm×H 0.45 mm)
- High common mode attenuation in high-speed differential transmission lines, Cut-off frequency is more than 8.5 GHz, and an influence to differential transmission signal quality is little
- Strong multilayer/sintered structure, excellent reflow resistance and high mounting reliability
- Lead, halogen and antimony-free
- RoHS compliant

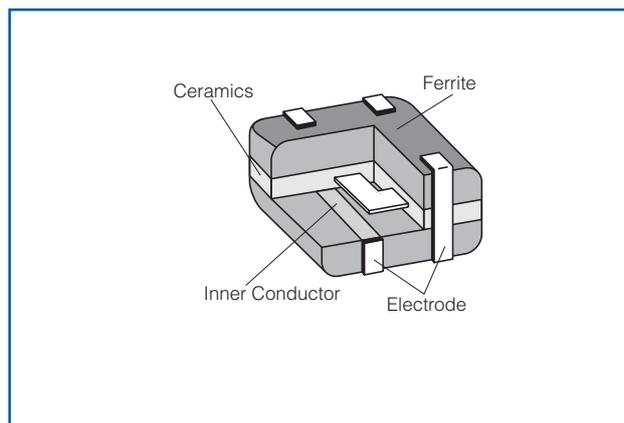
### Recommended Applications

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

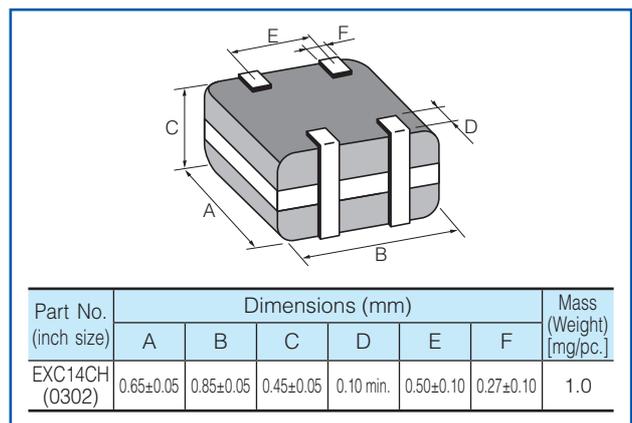
### Explanation of Part Numbers



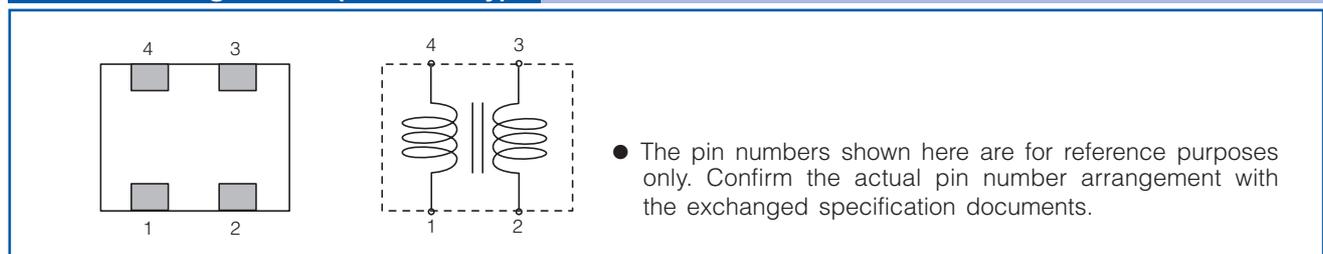
### Construction



### Dimensions in mm (not to scale)



### Circuit Configuration (No Polarity)

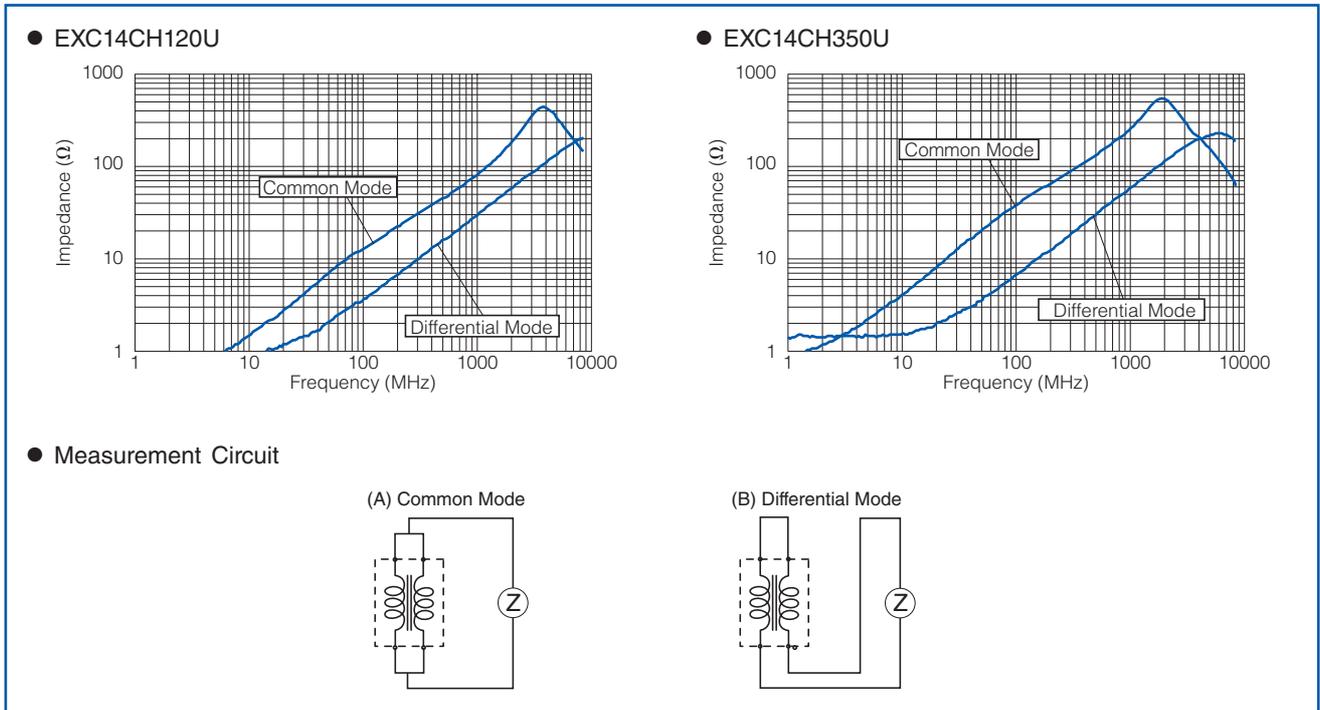


## Ratings

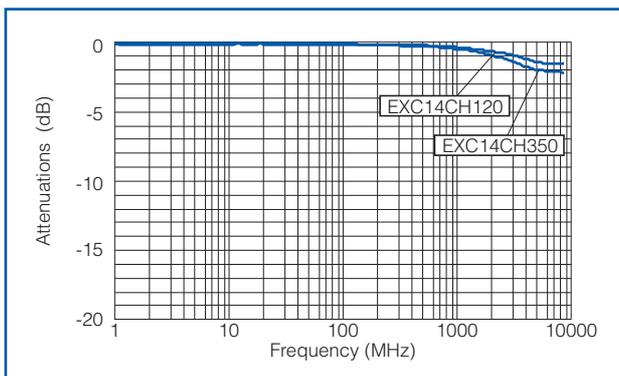
| Part Number | Impedance ( $\Omega$ ) at 100 MHz |                   | Rated Voltage (V DC) | Rated Current (mA DC) | DC Resistance ( $\Omega$ )max. |
|-------------|-----------------------------------|-------------------|----------------------|-----------------------|--------------------------------|
|             | Common Mode                       | Differential Mode |                      |                       |                                |
| EXC14CH120U | 12 $\Omega$ $\pm$ 25 %            | 10 $\Omega$ max.  | 5                    | 100                   | 1.0                            |
| EXC14CH350U | 35 $\Omega$ $\pm$ 30 %            | 15 $\Omega$ max.  | 5                    | 100                   | 1.5                            |

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

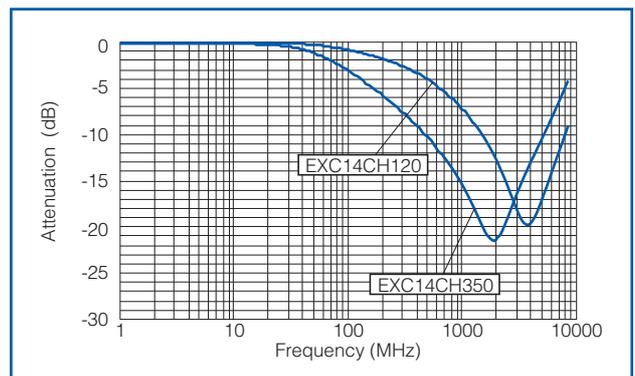
## Impedance Characteristics (Typical)



## Insertion Loss (Typical)



## Common mode Attenuation Characteristics (Typical)



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