Common mode Noise Filters with ESD Suppressor

Type: EXC24CS

Features
- Provides EMI Filtering and ESD Protection (L 1.25 mm × W 1.00 mm × H 0.50 mm)
- ESD and noise suppression of high-speed differential transmission lines with little influence of waveform rounding on signal transmission
- High Common mode attenuation in the range between 700 MHz and 1 GHz (RF band)
- 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
- ESD and noise suppression of high-speed differential data lines such as MIPI and USB

Explanation of Part Numbers

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>X</td>
<td>C</td>
<td>2</td>
<td>4</td>
<td>C</td>
<td>S</td>
<td>9</td>
<td>0</td>
<td>0</td>
<td>U</td>
<td></td>
</tr>
</tbody>
</table>

- Product Code
- Size
- Number of Terminals
- Type
- Characteristics
- Nominal Impedance
- Form
- Suffix

Noise Filter Code
- 2

Dimensions (mm) 1.25 x 1.00 x 0.50 (L x W x H)

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.

Dimensions in mm (not to scale)

<table>
<thead>
<tr>
<th>Part No. (inch size)</th>
<th>Dimensions (mm)</th>
<th>Mass (Weight) (mg/pcs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXC24CS (0504)</td>
<td>A 5 B 7 C 10 D 15 E 15 F 2 D 15 G 30</td>
<td>2.4</td>
</tr>
</tbody>
</table>

Construction
- Ceramics
- Ferrite
- Inner Conductor

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.
### Common mode Noise Filters with ESD Suppressor

#### Ratings

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Impedance (Ω) at 100 MHz</th>
<th>Rated Voltage (V DC)</th>
<th>Rated Current (mA DC)</th>
<th>DC Resistance (Ω)max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXC24CS350U</td>
<td>35 ±30%</td>
<td>5</td>
<td>100</td>
<td>2.0</td>
</tr>
<tr>
<td>EXC24CS900U</td>
<td>90 ±20%</td>
<td>5</td>
<td>100</td>
<td>3.0</td>
</tr>
</tbody>
</table>

- Category Temperature Range -40 °C to +85 °C

#### Impedance Characteristics (Typical)

- **EXC24CS350U**

- **EXC24CS900U**

#### Measurement Circuit

- (A) Common Mode
- (B) Differential Mode

#### ESD Suppression Characteristics (Typical: IEC61000-4-2, 8 kV contact discharge)

#### Recommended Land Pattern Design in mm (not to scale)

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