SMD Wirewound Common Mode Filter

SCM10S

Features

- Miniature SMD common mode filter
- Excellent noise attenuation in a small package
- Suitable for automated assembly
- SCM series offers wide impedance range
- Excellent solderability
- MSL Level 1

Electrical

Impedance range: 67-360Ω
Tolerance: 25% over entire range
Test Frequency: 100MHz
Withstand Voltage: 125Vdc Max
Operating Temp: -40°C to +125°C
Rated Current: ▲ T 20°C Max

Solderability Test

Preheat: 150°C, 60 sec.
Solder: Sn96.5%, Ag3%, Cu0.5%
Temperature: 245 ±5°C
Flux for Lead Free: Rosin 9.5%
Dip Time: 4 ±1 sec
Depth: Completey cover the termination

Test Equipment

Z (Common Mode): Agilent 4291A+, Agilent 16197A
DCR: Agilent 4338B
IR: Agilent 4339

Physical

Packaging: 2000 pcs 7 inch reel
Marking: None

Dimensions:

- Inch (mm)
  - .047±.008 (1.2±0.2)

Schematic

Reflow Soldering

TP(260°C / 10s max.)

Reflow times: 3 times max.
Typical Impedance v.s. Frequency Curve
SMD Wirewound Common Mode Filter  

SCM10S

Typical Impedance v.s. Frequency Curve

SCM10S-221

SCM10S-261

SCM10S-361

Typical Impedance v.s. Frequency Curve
Packaging Information

Reel Dimension

Tape Dimension

Tearing Off Force

The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

<table>
<thead>
<tr>
<th>Room Temp. (℃)</th>
<th>Room Humidity (%)</th>
<th>Room atm (hPa)</th>
<th>Tearing Speed mm/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>5~35</td>
<td>45~65</td>
<td>860~1060</td>
<td>300</td>
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</table>

Application Notice

- **Storage Conditions**
  2. Temperature and humidity conditions: Less than 40°C and 60% RH.
  3. Recommended products should be used within 12 months from the time of delivery.
  4. The packaging material should be kept where no chlorine or sulfur exists in the air.

- **Transportation**
  1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
  2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
  3. Bulk handling should ensure that abrasion and mechanical shock are minimized.