Surface Mount Tip and Ring Filters

These surface mount tip and ring filters provide substantial reduction of noise throughout an extended frequency range. Their economical design makes them attractive for a wide variety of applications.

Free evaluation samples are available by contacting Coilcraft or ordering them on-line at www.coilcraft.com.

Core material  Ferrite
Terminations  RoHS tin-silver-copper over tin over nickel over phos bronze
Weight  214 – 216 mg
Ambient temperature  −40°C to +85°C
Storage temperature  Component: −40°C to +85°C. Tape and reel packaging: −40°C to +80°C
Resistance to soldering heat  Max three 40 second refows at +260°C, parts cooled to room temperature between cycles
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at −30°C / 85% relative humidity)
Packaging  500/7” reel; 2000/13” reel  Plastic tape: 16 mm wide, 0.35 mm thick, 8 mm pocket spacing, 4.4 mm pocket depth
PCB washing  Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Lines</th>
<th>Common mode peak impedance (kOhms)</th>
<th>Cutoff frequency (MHz)</th>
<th>Inductance min (µH)</th>
<th>DCR max (Ohms)</th>
<th>Isolation (Vrms)</th>
<th>Current (mAdc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTRF2000L_</td>
<td>1</td>
<td>0.814 @ 11 MHz</td>
<td>38</td>
<td>35</td>
<td>0.075</td>
<td>1500</td>
<td>500</td>
</tr>
<tr>
<td>PTRF4000L_</td>
<td>2</td>
<td>0.851 @ 12 MHz</td>
<td>41</td>
<td>35</td>
<td>0.135</td>
<td>1500</td>
<td>500</td>
</tr>
</tbody>
</table>

1. When ordering, please specify packaging code:
   - **PTRF4000L**

Packaging:
- **C** = 7” machine ready reel. EIA-481 embossed plastic tape, 500 parts per full reel. Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
- **D** = 13” machine ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked, 2000 parts per full reel.
- **B** = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.

2. Frequency at which the differential mode attenuation equals −3 dB
3. Inductance shown for each winding, measured at 130 kHz, 0.1 Vrms, 0.1 Adc on an Agilent/HP 4284A LCR meter or equivalent.
4. DCR is for each winding.
5. Intwinding isolation (hipot) tested for one minute.
6. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

**Recommended Land Pattern**

Dimensions are in inches.

Coilcraft
www.coilcraft.com

US  +1-847-639-6400   sales@coilcraft.com
UK  +44-1236-730595   sales@coilcraft-europe.com
Taiwan +886-2-2264 3646   sales@coilcraft.com.tw
China +86-21-6218 8074   sales@coilcraft.com.cn
Singapore + 65-6484 8412   sales@coilcraft.com.sg

© Coilcraft Inc. 2022
This product may not be used in medical or high risk applications without prior Coilcraft approval.
Specification subject to change without notice.
Please check web site for latest information.