10/100 Ethernet Media Filter

Features
- Footprint compatible with wire-wound modules
- 1500V Isolation, Primary to Secondary
- 360 uH OCL with 8 mA DC bias
  - PoE >120 uH with 18 mA DC bias
- Ball-grid I/O pads
- ROHS compliant

Weight: ≤ 2 g.
Operating Temperature: 0°C to +70°C
Storage Temperature: -55°C to +125°C
SMT Soldering Temperature: Max 3 refows at 265°C for 20 seconds.
Packaging: 40 units per SMT feed tube

Performance at 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Schematic</th>
<th>Insertion Loss Max. dB</th>
<th>Return Loss Max. dB</th>
<th>Common to Differential Rejection, dB Min</th>
<th>Crosstalk, dB Max.</th>
<th>Package Style</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1-80 MHz</td>
<td>80-125 MHz</td>
<td>1-30 MHz</td>
<td>30-60 MHz</td>
<td>60-80 MHz</td>
</tr>
<tr>
<td>MF034</td>
<td>A</td>
<td>-1.0</td>
<td>-3.0</td>
<td>-18</td>
<td>-14</td>
<td>-12</td>
</tr>
<tr>
<td>MF049</td>
<td>B</td>
<td>-1.0</td>
<td>-3.0</td>
<td>-18</td>
<td>-14</td>
<td>-12</td>
</tr>
</tbody>
</table>

Schematic

Schematic A: 10/100 Ethernet

Schematic B: 10/100 PoE
Notes:
1. ROHS Compliant
2. UL 94V-0 Flammability Rating
3. Storage Temperature -55°C to +125°C
4. Compliance to J-STD
   a. J-STD-002; solderability at 245°C reflow solder profile
   b. J-STD-020; Level 1, No moisture sensitivity
   c. J-STD-075; 245°C maximum through reflow solder profile