SINGLE PORT RJ45  AR11-4090I

- 10/100 Base-T for Ethernet Applications
- Transmit open circuit inductance (OCL): 350µH (MIN) @ 100KHz, 0.1Vrms with 8mA DC Bias
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F
- Industrial Temp: -40°C to +85°C

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL(µH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio chip: cable (± 2%)</th>
<th>Cross Talk (dB Min)</th>
<th>HI-POT 1.0mA (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-4090I</td>
<td>350</td>
<td>1CT:1CT</td>
<td>-50</td>
<td>1500 AC</td>
</tr>
<tr>
<td></td>
<td>With 8mA DC Bias</td>
<td></td>
<td>-40</td>
<td>2250 DC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-35</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>-30</td>
<td></td>
</tr>
</tbody>
</table>

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min) @ Load 100 Ohm</th>
<th>CMR (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-4090I</td>
<td>-1.0</td>
<td>-1.2</td>
<td>-18</td>
</tr>
<tr>
<td></td>
<td>1-100MHz</td>
<td>100-125 MHz (10/100/100)</td>
<td>-16</td>
</tr>
<tr>
<td></td>
<td>1-30MHz</td>
<td>30MHz</td>
<td>-14</td>
</tr>
<tr>
<td></td>
<td>30-50MHz</td>
<td>60MHz</td>
<td>-12</td>
</tr>
<tr>
<td></td>
<td>60-80MHz</td>
<td>80-100MHz (10/100/1000)</td>
<td>-10</td>
</tr>
<tr>
<td></td>
<td>30MHz</td>
<td>1-100MHz</td>
<td>-30</td>
</tr>
</tbody>
</table>

**MECHANICAL**
1. Shield- 0.20mm THICKNESS BRASS C2680 H. PLATING NICKEL 20u" Min.
3. RJ Terminal- Plastic Nylon: PA66 UL94V-0, Standard Color Black. Pin: 0.35mm Thickness Phos-Bronze C5210 EH. Plating: Nickel 40u"-60u" for all and Sn 100%, and 6u" Gold Plating.
4. Input Terminal: Plastic Nylon PA66, Glass Filled, UL94V-0, Standard Color Black. Pin: 0.35mm Thickness Phos-Bronze SUS430. Plating: Nickel 40u"-60u" for all and Sn 100%.