1X4 RJ45 Connector

- 1000 Base-T for Ethernet Applications
- RJ45 jack cavity conforms to FCC rules and regulations
  Part 68, SUB Part F
- Industrial Temp: -40ºC to +85ºC
- Contact factory for Standard Operating Temp.

### Electrical Specifications @ 25ºC

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL (µH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio chip: cable (±5%)</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR14-4214I</td>
<td>350</td>
<td>1CT:1CT</td>
<td>1-100MHz</td>
<td>100-125MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-1.0</td>
<td>-1.2</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>1-40MHz</td>
<td>-16</td>
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<td></td>
<td></td>
<td></td>
<td>40-60MHz</td>
<td>-12</td>
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<tr>
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<td></td>
<td></td>
<td>60-80MHz</td>
<td>-10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>80-100MHz</td>
<td>-8</td>
</tr>
</tbody>
</table>

### Electrical Specifications @ 25ºC

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DC Resistance (Ohms Max)</th>
<th>Cross Talk (dB Min)</th>
<th>Common to Common Mode Attenuation (dB Min)</th>
<th>Isolation PHY Side to Line Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR14-4214I</td>
<td>1.2</td>
<td>-30</td>
<td>-30</td>
<td>1500 VAC</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### MECHANICAL

- Dimensions for plug-in side and mechanical features of the 1X4 RJ45 Connector AR14-4214I.
1X4 RJ45 Connector

SCHEMATICS

PCB LAYOUT

NOTES

CONNECTOR MATERIAL:
HOUSING: PBT BLACK UL94 V-0
SHIELD: Brass
SHIELD PLATING: NICKEL
CONTACT: PHOSPHOR BRONZE
CONTACT PLATING: SELECTIVE GOLD, 6 MICRO-INCHES MIN IN CONTACT AREA
PIN NOT ELECTRICALLY CONNECTED MAY BE OMITTED SEE ELECTRICAL DRAWING
FOR OMITTED PINS
THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS PEAK SOLDERING
TEMPERATURE IS 260 °C MAX, 10 SECS MAX