SINGLE PORT RJ45 CONNECTOR
AR11-4185I

- 10/100/1000 Base-T for Ethernet applications
- Designed to meet IEEE802.3ab standard
- 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 Operating Temp: -40°C to +85°C

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>OCL(µH Min) @ 100KHz, 0.1V</th>
<th>Turns Ratio (±3%)</th>
<th>Return Loss (dB Min) @ 100Ω</th>
<th>Insertion Loss (dB Max)</th>
<th>Cross Talk (dB Min)</th>
<th>CMR (dB Min)</th>
<th>HI-POT (VRms Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>With 8mA DC Bias</td>
<td>1CT:1CT</td>
<td>1-30MHz</td>
<td>30-60MHz</td>
<td>60-80MHz</td>
<td>80-100MHz</td>
<td>1-100MHz</td>
</tr>
<tr>
<td>350</td>
<td></td>
<td>-18</td>
<td>-14</td>
<td>-12</td>
<td>-10</td>
<td>-1.0</td>
</tr>
</tbody>
</table>

### MECHANICAL

**DIMENSIONS: inch (mm)**

**FRONT VIEW**

**SIDE VIEW**

**BOTTOM VIEW**

**TOP VIEW**

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All specifications subject to change without notice.
SINGLE PORT RJ45 CONNECTOR

SCHEMATICS

1. CONNECTOR MATERIALS:
   HOUSING MATERIAL: THERMOPLASTIC PBD +30%G.F. UL 94V-0
   CONTACT MATERIAL: PHOSPHOR BRONZE C5210R-EH THICKNESS=0.35mm
   PINS: BRASS C2680R-H THICKNESS=0.35mm
   SHIELD: SUS 201-1/2H THICKNESS=0.2mm
   CONTACT PLATING: GOLD 30µ” MIN IN CONTACT AREA
2. WAVE SOLDER TIP TEMPERATURE: 265°C MAX, 5 SEC MAX

NOTES