Single Port RJ45 Connector

AR11-4454I

- 10/100/1000 Base T Gigabit For Ethernet and other Networking Applications
- Compliant to IEEE802.3
- 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 ±2%</th>
<th>Cross Talk (dB Min)</th>
<th>HI-POT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-4454I</td>
<td>350</td>
<td>1CT: 1</td>
<td>-35, -32, -30</td>
<td>1500Vrms</td>
</tr>
</tbody>
</table>

**Electrical Specifications @ 25°C**

- Insertion Loss (dB Max)
- Return Loss (dB Min)
- Return Loss (dB Min)
- CMR (dB Min)

<table>
<thead>
<tr>
<th>1.0-100 MHz</th>
<th>1-10MHz</th>
<th>10-30MHz</th>
<th>30-60MHz</th>
<th>60-100MHz</th>
<th>1-100MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1.0</td>
<td>-18</td>
<td>-16</td>
<td>-12</td>
<td>-10</td>
<td>-30</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

**MECHANICAL**

**Front Side View**

**Left Side View**

**Bottom Side View**

**Top Side View**
1. Meets IEEE 802.3 specification
2. Connector Materials:
   Housing Material: Thermoplastic PBT+30%G.F UL94V-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 6 micro-inches min. in contact area.
3. Wave solder tip temperature: 265°C Max, 5 Sec Max