**SINGLE PORT RJ45 CONNECTOR**

**AR11-3899**

- 10/100 BaseT for LAN and other Ethernet Applications
- Impedance: 100OHMS
- Transmit open circuit inductance (OCL): 350uH (MIN) @100KHz, 0.1VRMS with 8mA DC Bias
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F
- Standard operating temp: 0ºC to +70ºC

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL (uH Min) @ 100kHz, 0.1V</th>
<th>Trans Ratio (±2%)</th>
<th>Cross Talk (dB Min) @ 100MHz without capacitance</th>
<th>HI-POT 1.0mA (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-3899</td>
<td>350</td>
<td>1CT:1CT</td>
<td>-30</td>
<td>1500</td>
</tr>
</tbody>
</table>

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Insertion Loss (dB Max) 1-100MHz</th>
<th>Return Loss (dB Min) @ Load 100 Ohm 1-100MHz</th>
<th>CMR (dB Min) 1-100MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-3899</td>
<td>-1.0</td>
<td>-1.2</td>
<td>-10</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### Mechanical

- Dimensions and specifications for the mechanical aspect of the connector are provided, including heights, widths, and other geometric details necessary for manufacturing and installation.
SINGLE PORT RJ45 CONNECTOR

SCHEMATICS

PCB LAYOUT

NOTES

1. Shielded - 0.20mm THICKNESS BRASS C2680 H. PLATING NICKEL 20u" Min.
3. RJ Terminal - Plastic Nylon66 GF UL94V-0, Standard Color Black.
   Plating Nickel 0.35mm Thickness Phos-Bronze C5210 EH.
   Plating Nickel 40u"~60u" for all and Sn 100%.
   and 6u" Gold Plating.
   Plating Nickel 0.35mm Thickness SUS430.
   Plating Nickel 40u"~60u" for all and Sn 100%.