- 10/100 BaseT for LAN and other Ethernet Applications
- 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

**SINGLE PORT RJ45 CONNECTOR**

**AR11-3957**

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### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL (uH Min) @ 100kHz, 0.1V With 8mA DC Bias</th>
<th>Turns Ratio (± 2%) TX:RX</th>
<th>Cross Talk (dB Min) 0.5-10MHz 30MHz 50MHz 100MHz</th>
<th>HI-POT 1.0mA (V) without capacitance</th>
<th>HI-POT 1.0mA (V) with capacitance</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-3957</td>
<td>350</td>
<td>1CT:1CT</td>
<td>-50 -40 -35 -30</td>
<td>1500 AC</td>
<td>2250 DC</td>
</tr>
</tbody>
</table>

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Insertion Loss (dB Max) 1-100MHz 100-125MHz (10/100/100) 1-30MHz 30-50MHz 60MHz 60-80MHz 80-100MHz (10/100/1000) 1-100MHz</th>
<th>Return Loss (dB Min) @ Load 100 Ohm 1-100MHz 60MHz 80-100MHz (10/100/1000)</th>
<th>CMR (dB Min) 1-100MHz 60MHz 80-100MHz (10/100/1000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-3957</td>
<td>-1.0 -1.2 -18 -16 -14 -12 -10 -30</td>
<td>-50 -14 -10</td>
<td>-30</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### MECHANICAL

![Mechanical Diagram]
NOTES

1. Shielded - 0.20mm THICKNESS BRASS C2680 H.
   PLATING NICKEL 20u' Min.
2. Housing - Standard Material Nylon66, Glass Filled
   Polyester UL94V-0 Stained Color Black.
3. RJ terminal - Plastic Nylon66 GF 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 Nylon66, Glass Filled, UL94V-0,
   Standard Color Black.
   Pin: 0.35mm Thickness SUS430.
   Plating: Nickel 40u"=60u" for all and Sn 100%.