Single Port RJ45  AR11-4184

- 10/100/1000 Base-T for Ethernet Applications
- Standard operating temp: 0°C to +70°C
- 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

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL (μH Min) @ 100kHz, 0.1V With 8mA DC Bias</th>
<th>Turns Ratio chip: cable (± 2%)</th>
<th>Cross Talk (dB Min)</th>
<th>HI-POT Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-4184</td>
<td>350</td>
<td>1CT:1CT</td>
<td>0.5-10MHz</td>
<td>-50</td>
</tr>
</tbody>
</table>

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>CMR (dB Max)</th>
<th>CDMR (dB Min) @ Load 100 Ohm</th>
</tr>
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<tbody>
<tr>
<td>0.3-1MHz</td>
<td>10MHz</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### MECHANICAL

- Transmit open circuit inductance (OCL): 350uH (MIN)
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F
1. Shield- 0.20mm THICKNESS BRASS C2680 H. PLATING NICKEL 20u" Min.
2. Housing- Standard Material Nylon66, Glass filled
   Polyester UL94V-0 Standard Color Black.
3. RJ Terminal-
   Plastic: Nylon66, UL94V-0, Standard Color Black.
   Pin: 0.35mm Thickness Phos-Bronze C5210 EH.
   Plating: Nickel 40u"-60u" for all and Sn 100%, and 30u" 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%.

NOTES

PCB LAYOUT

SCHMAMTICS

WITH A FORWARD CURRENT OF 20mA