Single Port RJ45 Connector

- 10/100/1000 Base-T Gigabit for Ethernet Applications
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F
- Operating Temp: 0°C to +70°C
- Contact Factory for Industrial Temp.
- Available in other Circuit Designs
- Optional Gold Plating Thickness
- Other LED Patterns available

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL(uH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio (± 2%)</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min)</th>
<th>1-100MHz</th>
<th>100-125MHz</th>
<th>1-30MHz</th>
<th>30-60MHz</th>
<th>60-80MHz</th>
<th>80-100MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-4312</td>
<td>350</td>
<td>1:1±5%</td>
<td>1:1±5%</td>
<td>-1.0</td>
<td>-1.2</td>
<td>-18</td>
<td>-16</td>
<td>-12</td>
<td>-10</td>
<td></td>
</tr>
</tbody>
</table>

Cross Talk (dB Min)

- 1-100MHz: -30

CMR (dB Min)

- 1-100MHz: -30

HI-POT 1.0mA, 60S

1500VAC

All specifications subject to change without notice.

MECHANICAL

[Diagram of Single Port RJ45 Connector]
SCHEMATICS

PCB LAYOUT

RECOMMENDED PCB LAYOUT
TOLERANCE ±0.05mm(T=1.6mm)

NOTES

1. Shielded — 0.20mm THICKNESS BRASS C2680 H. PLATING NICKEL 20u"—40u".
2. Housing— Standard Material Nylon 66 Filled
   Polyester UL94V-0 Standard Color Black.
   Pin: 0.35mm Thickness Phos—Bronze C5210 EH.
   Plating: Nickel40u"—60u" for all and Sn 100%,
   and Gold Plating 6u" .
4. Insert Pin— Plastic: Nylon 66, Glass Filled, UL94V-0,
   Standard Color Black.
   Pin: 0.35mm Thickness SUS430.
   Plating: Nickel40u"—60u" for all and Sn 100%.