Single Port RJ45 Connector

AR11-3998

- 10/100 Base-T for LAN and other Ethernet Applications
- Designed for PoE applications
- Compliant with IEEE802.3at
- 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: -0°C to +70°C

Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL (uH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio</th>
<th>Cross Talk (dB Min)</th>
<th>HI-POT 1.0mA (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-3998</td>
<td>350</td>
<td>1:1:1:1</td>
<td>-50</td>
<td>1500</td>
</tr>
</tbody>
</table>

Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min) @ Load 100 Ohm</th>
<th>CMR (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-3998</td>
<td>-1.0</td>
<td>-18</td>
<td>-10</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

MECHANICAL
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: LPC, 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%. 

Suggested PCB Layout
All dim. tolerance are ±0.05mm.