**SINGLE PORT RJ45**

- **RoHS**

**AR11-3995I**

- **10/100 Base-T PoE, Ethernet, LAN and other Networking Applications**
- **PoE current 350mA @ center taps, 1.5A @ pins J4, J5, J7, J8**
- **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**
- **Industrial Temp: -40°C to +85°C**

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL (μH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio (±2%)</th>
<th>Cross Talk (dB Min)</th>
<th>HI-POT 1.0mA (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>With 8mA DC Bias</td>
<td></td>
<td>0.5-10MHz</td>
<td>30MHz</td>
</tr>
<tr>
<td>AR11-3995I</td>
<td>350</td>
<td>1CT:1CT</td>
<td>-50</td>
<td>-40</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></td>
<td>1-100MHz</td>
<td>100-125 MHz (10/100/100)</td>
<td>1-30MHz</td>
</tr>
<tr>
<td>AR11-3995I</td>
<td>-1.0</td>
<td>-1.2</td>
<td>-18</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

**MECHANICAL**

- 10/100 Base-T PoE, Ethernet, LAN and other Networking Applications
- PoE current 350mA @ center taps, 1.5A @ pins J4, J5, J7, J8
- Transmit open circuit inductance (OCL): 350μH (MIN)
  - @ 100KHz, 0.1Vrms with 8mA DC Bias
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- Industrial Temp: -40°C to +85°C
SINGLE PORT RJ45  AR11-3995I

SCHEMATICS

PCB LAYOUT

NOTES

1. Shield-  0.20mm THICKNESS BRASS C2680 H.
   PLATING NICKEL 30u"-50u" Min.

2. Housing-  Standard Material Nylon66, Glass filled
   Polyester UL94V-0 Standard Color Black.

3. RJ Terminal-  Plastic: PBT 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.