2X1 Dual Port RJ45 Connector

AR21-3694I

- 10/100/1000 Base-T Ethernet Application
- Impedance: 100OHMS
- 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 Operating temp: -40°C to +85°C
- Contact Factory for Standard Temp.
- Storage temperature range: -40°C to +85°C

### 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 Chip: Cable (±3%)</th>
<th>Insertion Loss (dB Max) 1-100MHz</th>
<th>Return Loss (dB Min) 1-100MHz, 1-30MHz, 30-60MHz, 60-80MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR21-3694I</td>
<td>350</td>
<td>1:1:1 CT</td>
<td>1.0</td>
<td>18 16 12</td>
</tr>
</tbody>
</table>

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Common Mode Rejection (dB Min)</th>
<th>Cross Talk (dB Min) 1-100MHz</th>
<th>HI-POT (VDC) 60Sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR21-3694I</td>
<td>-30</td>
<td>-30</td>
<td>2250</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### MECHANICAL

[Diagram of connector dimensions and features]
1. Shield- 0.20mm THICKNESS BRASS C2680 H. PLATING NICKEL 30u"-50u"
3. RJ Terminal- Plastic: PBT+30% 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: Nylon 66 Glass Filled, UL94V-0, Standard Color Black. Pin: 0.35mm Thickness Phos-Bronze C2680. Plating: Nickel 40u"-60u" for all and Sn 100%.