1X2 Dual Port RJ45 Connector

AR12-3968I

- 1000 Base-T for Ethernet Applications
- RJ45 jack cavity conforms to FCC rules and regulations
  Part 68, SUB Part F
- Industrial Temp: -40°C to +85°C
- Available in other Circuit Designs
- Optional Gold Plating Thickness

Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL(μH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio chip: cable (±5%)</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR12-3968I</td>
<td>350</td>
<td>1:1</td>
<td>1.0</td>
<td>-10</td>
</tr>
</tbody>
</table>

Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Cross Talk (dB Min)</th>
<th>CMRR (dB Min)</th>
<th>CMR (dB Min)</th>
<th>HI-POT (VDC) (Input to Output)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-100MHz</td>
<td>1-100MHz</td>
<td>30MHz</td>
<td>80MHz</td>
</tr>
<tr>
<td>-30</td>
<td>-30</td>
<td>-43</td>
<td>-37</td>
</tr>
<tr>
<td>100MHz</td>
<td>30MHz</td>
<td>80MHz</td>
<td>100MHz</td>
</tr>
<tr>
<td>-33</td>
<td>-37</td>
<td>-33</td>
<td>1500</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

MECHANICAL
1X2 Dual Port RJ45 Connector

SCHEMATICS

PCB CONNECTIONS

PCB LAYOUT

NOTES

1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and switches.
2. Meets IEEE 802.3 specification
3. Connector Materials:
   Housing: Thermoplastic UL 94V-0
   Contact/Shield: Copper alloy
   Shield plating: Nickel
   Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 265°C Max
   Wave solder tip temperature time: 5 Sec Max