2x2 4 Port RJ45 Connector  
ARB537-014501I

- 10/100/1000 Base-T Ethernet Application
- Meets IEEE 802.3 & ANSI X 3.263 standards
- Impedance: 100OHMS
- Transmit open circuit inductance
- Always EU RoHS/ELV Compliant, wave solder capable to 265°C
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F
- Operating Temperature: -40°C to +85°C

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Turn Ratio</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip : Cable (±3%)</td>
<td>1-100MHz</td>
<td>1-30MHz</td>
</tr>
<tr>
<td>With 8mA DC Bias</td>
<td>350</td>
<td>-1,2</td>
</tr>
</tbody>
</table>

**Cross Talk (dB Min)**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>30MHz</th>
<th>60MHz</th>
<th>100MHz</th>
<th>30MHz</th>
<th>60MHz</th>
<th>100MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-100MHz</td>
<td>-43</td>
<td>-37</td>
<td>-33</td>
<td>-50</td>
<td>-43</td>
<td>-35</td>
</tr>
</tbody>
</table>

**CMRR (dB Min)**

- 350 @ 100MHz
- 350 @ 150MHz

**HI-POT (Vrms)**

- 1500

**MECHANICAL**

Dimensions: mm

**Tolerance Unless otherwise specified**

- XX ±0.20
- X.XX ±0.10
- X.XXX ±0.05
Housing: PBT, Flammability Rating 94V-0.

Shield: Copper Alloy 1.2mm thick, 80µ" Min nickel plating.

Mod Jack Contacts: Phosphor Bronze, 6µ" Gold plated.

LED: Diffused Epoxy Lens, 0.5x0.5mm Carbon Steel Wireframe Leads.

Notes:
1. R1-R4 = 750Ω, 1/16W, 5% Resistors.
2. C1 = 1000pF, 2KV Decoupling Capacitor.
3. LED Compliant With IEC60825-1 Safety or Laser Products when operated up to 20mA