**Single Port RJ45 Connector**

**ARA009-3252I**

- 10/100 Base-T Ethernet Application
- Impedance: 100OHMS
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F
- Industrial Operating Temp: -40ºC to +85ºC
- Available in other Circuit Designs
- Optional Gold Plating Thickness
- Other LED Patterns available

### 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>Insertion Loss (dB Max)</th>
<th>CMR (dB Min)</th>
<th>CDMR (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>With 8mA DC Bias</td>
<td>P1-P2;J1-J2</td>
<td>P3-P4;J3-J6</td>
<td>1-100MHz</td>
<td>1-100MHz</td>
<td>1-100MHz</td>
</tr>
<tr>
<td>ARA009-3252I</td>
<td>350</td>
<td>1CT:1CT</td>
<td>-1.0</td>
<td>-30</td>
<td>-40</td>
</tr>
</tbody>
</table>

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Return Loss (dB Min)</th>
<th>Cross Talk (dB Min)</th>
<th>HI-POT (Vrms) 1mA, 60s</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-30MHz</td>
<td>1-100MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-60MHz</td>
<td>1-100MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60-80MHz</td>
<td>1-100MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80-100MHz</td>
<td>1-100MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARA009-3252I</td>
<td>-18</td>
<td>-16</td>
<td>-12</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### MECHANICAL

![Mechanical Diagrams]
SCHEMATURES

**NOTES**

1. Shielded – 0.20mm Thickness Brass C2680 H.
    Plating Nickel 20u'^MIN.
2. Housing – Plastic: Nylon 66, Glass Fiber Filled
   UL94V-0 , Color Block.
3. Contact Pin – Plastic: Nylon 66, Glass Fiber Filled
   UL94V-0 , Color Block.
   Pin0.35mm Thickness Phosphor Bronze C5210 E.H.
   Plating:Nickel 30u~60u" For All And Sn 100%.
   And Gold Plating 6u".
4. Insert Pin – Plastic: Nylon 66, Glass Fiber Filled
   UL94V-0 , Color Block.
   Pin0.35mm Thickness SUS303.
   Plating: Sn All Over 30u~60u" Nickel.

---

**PCB LAYOUT**

**RECOMMENDED PCB LAYOUT**

TOALENCE ±0.05mm (T=1.6mm)