RoHS

Single Port RJ45 Connector

AR1015-1221I

- 100 Base-T Ethernet Application
- Meets IEEE 802.3 & ANSI X 3.263 standards
- Impedance: 100Ω
- Wave solder capable to 265°C
- Industrial operating temp: -40°C to ±85°C

Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL(uH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio (±3%)</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR1015-1221I</td>
<td>350</td>
<td>1CT:1CT</td>
<td>0.5-100MHz 0.5-30MHz</td>
<td>30.1-60MHz 60.1-80MHz</td>
</tr>
</tbody>
</table>

Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>EMI Fingers</th>
<th>LED (L/R)</th>
<th>Cross Talk (dB Min)</th>
<th>CMRR (dB Min)</th>
<th>HI-POT VRMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR1015-1221I</td>
<td>NO</td>
<td>G/Y</td>
<td>0.5-40MHz 40.1-100MHz</td>
<td>0.5-100MHz</td>
<td>-30</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

MECHANICAL

Front Side View

Left Side View

Bottom Side View

Top Side View
Schematics

PCB Layout

Notes

1. Meets IEEE 802.3 specification
2. Connector Materials:
   - Housing Material: Thermoplastic PBT+30%GF UL 94V-0
   - Contact Material: Phosphor Bronze C5210R-EH Thickness=0.35mm
   - Pins: Brass C2680R-H Thickness=0.35mm
   - Shield: SUS 201-1/2H Thickness=0.2mm
   - Contact plating: Gold 6 micro-inches min. In contact area.
3. Wave solder tip temperature: 265°C Max, 5 Sec Max