• 10/100 Base-T for Ethernet Applications
• For PoE Applications up to 600mA DC Max
• Meets IEEE802.3af standards
• Industrial Temp: -40ºC to +85ºC
• Available in other Circuit Designs

**Single Port Vertical Mount RJ45**

**ARV11-4209I**

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL(uH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio (chip: cable ±3%)</th>
<th>DCR (Ω Max)</th>
<th>Cross Talk (dB Min) 1-30MHz</th>
<th>Insertion Loss (dB Min) 60-100MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARV11-4209I</td>
<td>350</td>
<td>1CT:1CT</td>
<td>1.2</td>
<td>-40</td>
<td>-1.0</td>
</tr>
</tbody>
</table>

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Common Mode Rejection (dB Max) 1~50MHz</th>
<th>Return Loss (dB Min) 30~60MHz</th>
<th>Hi-Pot Test 60~100MHz Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARV11-4209I</td>
<td>-30</td>
<td>-18</td>
<td>-12</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

**MECHANICAL**
Single Port Vertical Mount RJ45
ARV11-4209I

SCHEMATICs

PC BOARD CONNECTIONS

NOTES

Connector Materials:
Housing Material: Thermoplastic PBT+30%G.F UL94V-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.
Wave solder tip temperature: 265°C Max, 5 Sec Max

PCB LAYOUT

SUGGESTED PCB LAYOUT (TOP VIEW)

RoHS