10/100 Base-T for Ethernet Applications
DCR: Pins(J6, J2) = (J2, J1)= 1.2 OHMs Max
Rise Time: RS=100 OHMs and RL=100 OHMs
Output Voltage=1 V, Peak=3.0 nS Max, Pulse Width=112 nS=3.0 nS Max
RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F
Standard Operating Temp: -40ºC to +85ºC
Available in other Circuit Designs
Optional Gold Plating Thickness

### Single Port Vertical RJ45 Connector

**ARV11-3815I**

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL(uH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio Chip: Cable (1000KHzm, 0.1V)</th>
<th>Insertion Loss (dB Max) 1-100MHz</th>
<th>Return Loss (dB Min) 60-80MHz</th>
<th>Cross Talk (dB Min) 1-100MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARV11-3815I</td>
<td>350</td>
<td>1CT:1CT±3%</td>
<td>-1.0</td>
<td>-18</td>
<td>-12</td>
</tr>
</tbody>
</table>

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Common to Common Mode Attenuation (dB Min) @ 1MHz Max</th>
<th>Interwinding Capacitance (pF) Max</th>
<th>HI-POT (Vac) 60 sec. 1500</th>
<th>Cross Talk (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARV11-3815I</td>
<td>-35</td>
<td>(P3, P2, P1) TO (J2, J1)=30 pF</td>
<td>Pins:(J3,J6) to (P4,P6)</td>
<td>-30</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### MECHANICAL
Single Port Vertical RJ45 Connector  

ARV11-3815I

SCHEMATICS

NOTES: 1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED

PCB LAYOUT

NOTES

HOUSING—LCP UL94V-0
HEAT DEFLECTION TEMP 265°
STANDARD COLOR—BLACK
CONTACTS—0.35mm THICK PHOS-BRONZE
PLATED WITH HARD GOLD AND
TIN IN SOLDER AREA
SHIELD—0.25mm THICK COPPER ALLOY
PLATED WITH NICKEL