**Single Port Low Profile RJ45**

- 10/100/1000 Gigabit for Ethernet and other Networking Applications
- Transmit open circuit inductance (OCL):
  - (OCL): 350uH (MIN) @100KHz, 0.1VRMS with 8mA DC Bias
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F
- Standard operating temp: 0°C to +70°C
- Storage temperature range: -40°C to +85°C
- Optional Gold Plating Thickness Available

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL (uH Min) @ 100kHz, 0.1V With 8mA DC Bias</th>
<th>Turns Ratio chip: cable (±5%)</th>
<th>Insertion Loss (dB Max) 1-100MHz</th>
<th>Return Loss (dB Min) 30MHz</th>
<th>Return Loss (dB Min) 50MHz</th>
<th>Return Loss (dB Min) 80MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARLP11-4178</td>
<td>350</td>
<td>1CT:1CT</td>
<td>-1.0</td>
<td>-18</td>
<td>-15</td>
<td>-12</td>
</tr>
</tbody>
</table>

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Cross Talk (dB Min) 1-100MHz</th>
<th>Common to Common Mode Attenuation (dB Min) 1-100MHz</th>
<th>Isolation (PHY Side to Line Side) 1500 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARLP11-4178</td>
<td>-38</td>
<td>-30</td>
<td>1500 VAC</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### MECHANICAL

- Green/Orange: 17.78
- Yellow: 24.13
- J8: 1.3
- J1: 13.21

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949-356-1780

ALLIED COMPONENTS INTERNATIONAL

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NOTES

1. CONNECTOR MATERIAL:
   HOUSING: THERMOPLASTIC BLACK UL94 V-0
   SHIELD: Brass
   SHIELD PLATING: NICKEL
   CONTACT: PHOSPHOR BRONZE
   CONTACT PLATING: SELECTIVE GOLD, 30 MICRO-INCHS MIN IN CONTACT AREA

2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED SEE ELECTRICAL DRAWING
   FOR OMITTED PINS

3. RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATION PART 68.
4. THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS PEAK SOLDERING
   TEMPERATURE IS 260° C MAX, 10 SECS MAX
5. OPERATING TEMPERATURE T=0° C TO +70° C.
6. STORAGE TEMPERATURE T=-40° C TO +85° C.