10/100/1000 Gigabit for Ethernet and 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: 0ºC to +70ºC

- Storage temperature range: -40ºC to +85ºC

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL (uH Min) @ 100KHz, 0.1V</th>
<th>Turns Ratio (±5%) With 8mA DC Bias</th>
<th>DC Resistance</th>
<th>Insertion Loss (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARLP11-4321</td>
<td>350</td>
<td>1CT:1CT</td>
<td>-1.2 Ω Max</td>
<td>1-100MHz: -1.0, 100-125MHz: -1.2</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>Common To Common Mode (dB Min)</th>
<th>Isolation (VDC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARLP11-4321</td>
<td>1-40MHz: -16, 40-60MHz: -12, 60-80MHz: -10, 80-100MHz: -8</td>
<td>1-100MHz: -30</td>
<td>1-100MHz: -30</td>
<td>PHY Side to Line Side: 2250 VDC</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### Mechanical

**Green/Orange**

**Yellow**

UNIT: mm / inch

- A = 17.78 / 0.700
- B = 11.30 / 0.445
- C = 24.13 / 0.950
- D = 3.30 / 0.130
1. CONNECTOR MATERIAL:
   HOUSING: THERMOPLASTIC BLACK UL94 V-0
   SHIELD: BRASS
   SHIELD PLATING: NICKEL
   CONTACT: PHOSPHOR BRONZE
   CONTACT PLATING: SELECTIVE GOLD, 6 MICRO-INCHES MIN IN CONTACT AREA
2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED, SEE ELECTRICAL DRAWING FOR OMITTED PINS.
3. THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECS MAX.