10/100/1000 Base-T Gigabit for Ethernet Applications
- Standard operating temp: 0°C to +70°C
- Transmit open circuit inductance (OCL): 350uH (MIN) @ 100KHz, 0.1Vrms with 8mA DC Bias
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Part  Number</th>
<th>OCL(uH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio chip: cable (±2%)</th>
<th>Cross Talk (dB Min)</th>
<th>HI-POT 1.0mA (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>With 8mA DC Bias</td>
<td>0.5-10MHz 30MHz 50MHz 100MHz</td>
<td>without capacitance</td>
</tr>
<tr>
<td>AR11-4005</td>
<td>350</td>
<td>1CT:1CT</td>
<td>-50 -40 -35 -30</td>
<td>1500</td>
</tr>
</tbody>
</table>

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min) @ Load 100 Ohm</th>
<th>CMR (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1-100MHz 100-125 MHz (10/100/100)</td>
<td>1-30MHz 30-50MHz 60MHz 60-80MHz 80-100MHz (10/100/1000)</td>
<td>1-100MHz</td>
</tr>
<tr>
<td>AR11-4005</td>
<td>-1.0</td>
<td>-1.2</td>
<td>-18</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

**MECHANICAL**
**1. Shield**
- 0.20mm THICKNESS BRASS C2680 H.
- PLATING NICKEL 20u" Min.

**2. Housing**
- Standard Material LCP, Glass filled

**3. RJ Terminal**
- Plastic: LCP GF UL94V-0, Standard Color Black.
- Pin: 0.35mm Thickness Phos-Bronze C5210 EH.
- Plating: Nickel 40u"-60u" for all and Sn 100%, and 6u" and 50" Gold Plating.

**4. Input Terminal**
- Plastic: Nylon66, Glass Filled, UL94V-0, Standard Color Black.
- Pin: 0.35mm Thickness SUS430.
- Plating: Nickel 40u"-60u" for all and Sn 100%.