10/100/1000 Gigabit
- For PoE+ applications. Compliant with IEEE802.3at
- Balanced DC Current: 720mA Max @ 570 VDC continuous
  1.2A Max @ 57 VDC for 200 milliseconds
- 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
- Industrial Temp: -40°C to +85°C

**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>With 8mA DC Bias</td>
<td></td>
<td></td>
<td>without capacitance with capacitance</td>
</tr>
<tr>
<td>AR11-4027I</td>
<td>350</td>
<td>1CT:1CT</td>
<td>-50</td>
<td>1500 AC</td>
</tr>
</tbody>
</table>

**Insertion Loss (dB Max)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>1-100MHz</th>
<th>100-125 MHz (10/100/100)</th>
<th>1-30MHz</th>
<th>30-50MHz</th>
<th>60MHz</th>
<th>60-80MHz</th>
<th>80-100MHz (10/100/1000)</th>
<th>1-100MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-4027I</td>
<td>-1.0</td>
<td>-1.2</td>
<td>-18</td>
<td>-16</td>
<td>-12</td>
<td>-10</td>
<td>-30</td>
<td></td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.
1. Shield- 0.20mm THICKNESS BRASS C2680 H.
   PLATING NICKEL 20u" Min.
2. Housing- Standard Material Nylon PA66 Glass filled
   Polyester UL94V-0 Standard Color Black.
3. RJ Terminal- Plastic Nylon: PA66 UL94V-0, Standard
   Color Black.
   Pin: 0.35mm Thickness Phos-Bronze C5210 EH.
   Plating: Nickel 40u"-60u" for all and Sn 100%, and
   6u" Gold Plating.
4. Input Terminal: Plastic Nylon PA66, Glass Filled, UL94V-0,
   Standard Color Black.
   Pin: 0.35mm Thickness Phos-Bronze SUS430.
   Plating: Nickel 40u"-60u" for all and Sn 100%.

Suggested PCB Layout
All dim. tolerance are ±0.05mm.