10/100 Base-T for POE, LAN and other Ethernet Applications
- Impedance: 100OHMS
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F
- Industrial Temp: -40°C to +85°C
- Contact Factory for Standard Operating Temp.
- Available in other Circuit Designs
- Suitable for IR Reflow
- Other LED Patterns available

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL(uH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio @100kHz,0.1V</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1-P3: J1-J2</td>
<td>350</td>
<td>1:1±5%</td>
<td>-1.0</td>
<td>-12</td>
</tr>
<tr>
<td>P4-P5: J3-J6</td>
<td>1:1±5%</td>
<td>-18</td>
<td>-16</td>
<td></td>
</tr>
<tr>
<td>AR11-4310IR</td>
<td>1-100MHz</td>
<td>30-60MHz</td>
<td>60-80MHz</td>
<td></td>
</tr>
</tbody>
</table>

**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Cross Talk (dB Min)</th>
<th>CMR (dB Min)</th>
<th>HI-POT (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-100MHz</td>
<td>1-100MHz</td>
<td>1.0mA/3Sec.</td>
</tr>
<tr>
<td>-30</td>
<td>-30</td>
<td>1500</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.
SCHEMATICS

PCB LAYOUT

NOTES

1. Shielded — 0.20mm THICKNESS BRASS C2680 H.
   PLATING NICKEL 20u”MIN.
2. Housing — Standard Material LCP, Glass Filled
   Polyester UL94V-0 Stanned Color Black.
   Pin: 0.35mm Thickness Phos—Bronze C5210 EH.
   Plating: Nickel30u”~60u” for all and Sn 100%,
   and Gold Plating 30u”.
4. Insert Pin — Plastic: LCP, Glass Filled, UL94V-0,
   Standard Color Black.
   Pin: 0.35mm Thickness SUS430.
   Plating: Nickel30u”~60u” for all and Sn 100%. 

With a forward current of 20mA