10/100 Base-T Ethernet Application

Impedance: 100Ω

Standard Operating Temperature: 0°C to ±70°C

Storage Temperature: -40°C to ±85°C

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL(µH Min) @ 100kHz, 0.1V</th>
<th>Insertion Loss (dB Max) @1-100MHz</th>
<th>Turns Ratio @100kHz, 0.1V</th>
<th>Cross Talk @1-100MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-3837</td>
<td>350</td>
<td>-1.0dB Max</td>
<td>1:1±2%</td>
<td>-30dB Min</td>
</tr>
</tbody>
</table>

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Return Loss @MHz</th>
<th>Common Mode Rejection</th>
<th>HI-POT (Vrms) 1.0mA/3Sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR11-3837</td>
<td>-18dB Min</td>
<td>-15dB Min</td>
<td>1500</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.
RoHS

Single Port RJ45 Connector  AR11-3837

SCHEMATIC

PCB LAYOUT

NOTES

1. Shield- 0.20mm THICKNESS BRASS C2680 H.
   PLATING NICKEL 20u MIN.

2. Housing- Plastic: Nylon 66, Glass Fiber Filled
   Polyester UL94V-0 Standard Color Black.

3. Contact Pin- Plastic: Nylon 66, Glass Fiber Filled
   Polyester UL94V-0 Standard Color Black.
   Pin: 0.35mm Thickness Phosphor Bronze C5210 EH.
   Plating: Nickel 30u"-60u" for all and Sn 100%, and
   15u" Gold Plating.

4. Inser Pin- Plastic: Nylon 66, Glass Fiber Filled
   Polyester UL94V-0 Standard Color Black.
   Pin: 0.35mm Thickness SUS430.
   Plating: Sn all over 30u"-60u" Nickel

With a forward current of 20mA