1X4 RJ45 Connector

- 10/100/1000 Base-T Gigabit Ethernet Application
- Impedance: 100OHMS
- 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
- Standard operating temp: 0°C to +70°C
- Contact factory for Industrial Temp.
- Storage temperature range: -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 (±2%)</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR14-3683</td>
<td>350</td>
<td>1CT:1CT</td>
<td>-1.0</td>
<td>-18</td>
</tr>
</tbody>
</table>

#### Electrical Specifications @ 25°C

- Cross Talk (dB Min)
  - 0.5-1MHz: -50, 10MHz: -50, 30MHz: -40, 50MHz: -35, 100MHz: -30

- CMR (dB Min)
  - 0.3-1MHz: -50, 10MHz: -47, 30MHz: -42, 60MHz: -37, 100MHz: -30

- CDMR (dB Min)
  - 0.3-1MHz: -50, 10MHz: -50, 30MHz: -45, 60MHz: -40, 100MHz: -37

- HI-POT (Vrms)
  - 0.5mA/2Sec. 50MHz: -35, 30MHz: -40, 60MHz: -45

All specifications subject to change without notice.

### MECHANICAL
1. Shield- 0.25mm THICKNESS BRASS C2680 H. PLATING NICKEL 30u"-50u"
3. RJ Terminal- Plastic: PBT 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: PBT, Glass Filled, UL94V-0, Standard Color Black. Pin: 0.35mm SUS430. Plating: Nickel 40u"-60u" for all and Sn 100%.