1X4 RJ45 Connector  AR14-3639

- 10/100 Base-T 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: 0ºC to +70ºC
- Contact Factory for Industrial Temp.
- Storage temperature range: -40ºC to +85ºC

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL(uH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio chip: cable (±3%)</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>350</td>
<td>(3-6):(7-8)=1CT:1CT,(1-2):(1-2)</td>
<td>0.3-100MHz 30MHz 50MHz 80MHz</td>
<td></td>
</tr>
<tr>
<td>AR14-3639</td>
<td></td>
<td></td>
<td>-1.0 -18 -15 -12</td>
<td></td>
</tr>
</tbody>
</table>

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Cross Talk (dB Min)</th>
<th>CMR (dB Min)</th>
<th>HI-POT (Vrms) 0.5mA/2Sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30MHz 60MHz 100MHz</td>
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<td></td>
</tr>
<tr>
<td>AR14-3639</td>
<td>-38 -38 -38</td>
<td>-40 -40 -40</td>
<td>1500</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### MECHANICAL

- Dimensions provided in the attached diagram.
1. Shield- 0.25mm THICKNESS BRASS C2680 H.
   PLATING NICKEL 30u"-50u"

2. Housing-
   Standard Material Nylon 66, 30% GF, Glass filled
   Polyester UL94V-0 Standard Color Black.

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 30% G.F., Glass Filled, UL94V-0,
   Standard Color Black.
   Pin: 0.35mm Thickness Phos-Bronze C2680.
   Plating: Nickel 40u"-60u" for all and Sn 100%.