10/100/1000 Base-T Gigabit Ethernet Application

Impedance: 100OHMS

Transmit open circuit inductance (OCL): 350μH (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 (μH Min) @ 100kHz, 0.1V With 8mA DC Bias</th>
<th>Turns Ratio Chip: Cable (±3%)</th>
<th>Insertion Loss (dB Max) 1-100MHz</th>
<th>Return Loss (dB Min) 60-80MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR24-3635</td>
<td>350</td>
<td>1CT:1CT</td>
<td>18</td>
<td>16</td>
</tr>
</tbody>
</table>

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Cross Talk (dB Min) 1-100MHz</th>
<th>CMR (dB Min) 1-100MHz</th>
<th>HI-POT (VDC) 60Sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR24-3635</td>
<td>-30</td>
<td>-30</td>
<td>2250</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### MECHANICAL

[Diagram of the connector and additional dimensions]
1. Shield- 0.20mm THICKNESS BRASS C2680 H.  
   PLATING NICKEL 30u"-50u"  
2. Housing- Standard Material Nylon 66, Glass filled  
   Polyester UL94V-0 Standard Color Black.  
3. RJ Terminal- Plastic: PBT+30% GF UL94V-0, Standard  
   Color Black.  
   Pin: 0.35mm Thickness Phos-Bronze C5210 EH.  
   Plating: Nickel 40u"-60u" for all Sn 100%, and  
   30u" Gold Plating.  
4. Contact Pin- Plastic: Nylon 66, Glass filled, UL94V-0,  
   Standard Color Black.  
   Pin: 0.35mm Thickness Phos-Bronze C2680.  
   Plating: Nickel 40u"-60u" for all Sn 100%.