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

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**Electrical Specifications @ 25°C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>OCL (uH Min) @ 100kHz, 0.1V</th>
<th>Turns Ratio (± 3%)</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>With 8mA DC Bias</td>
<td>chip: cable</td>
<td>0.3-100MHz</td>
<td>30MHz</td>
</tr>
<tr>
<td>AR11-3861</td>
<td>350</td>
<td>1CT:1CT</td>
<td>-1.0</td>
<td>-18</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) 0.8mA/2Sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30MHz</td>
<td>60MHz</td>
<td>100MHz</td>
</tr>
<tr>
<td>AR11-3861</td>
<td>-38</td>
<td>-38</td>
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</tr>
</tbody>
</table>

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**MECHANICAL**

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1. Shield- 0.20mm THICKNESS BRASS C2680 H.
   PLATING NICKEL 20" min

2. Housing- Standard Material Nylon66, Glass filled
   Polyester UL94V-0 Standard Color Black.

   Pin: 0.35mm Thickness Phos-Bronze C5210 EH.
   Plating: Nickel 40u"~60u", for all and Sn100u-120u, and Gold Plating 6".

   Pin: 0.35mm Thickness Phos-Bronze C2680.
   Plating: Nickel 40u"~60u" for all and Sn 100u"-120u"