10/100 Base T for 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 (±2%)</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR14-3828</td>
<td>350</td>
<td>1:1</td>
<td>-1.0</td>
<td>-18</td>
</tr>
</tbody>
</table>

#### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Cross Talk (dB Min)</th>
<th>CMR (dB Min)</th>
<th>CDMR (dB Min)</th>
<th>HI-POT (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5-1MHz</td>
<td>-50 -50</td>
<td>-40 -35</td>
<td>-30 -30</td>
</tr>
<tr>
<td>10MHz</td>
<td>-47 -42</td>
<td>-37 -30</td>
<td>-30 -30</td>
</tr>
<tr>
<td>50MHz</td>
<td>-50 -50</td>
<td>-45 -40</td>
<td>1500</td>
</tr>
<tr>
<td>100MHz</td>
<td>-50 -50</td>
<td>-45 -40</td>
<td>1.0mA/3Sec.</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### MECHANICAL

![Mechanical Diagram]
1. Shield- 0.20mm THICKNESS BRASS C2680 H.
   PLATING NICKEL 20" Min
2. Housing- Standard Material FR-52 (PA6T)
3. RJ Terminal- FR-52 (PA6T) 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: FR-52, (PA6T) UL94V-0,
   Standard Color Black.
   Pin: 0.35mm SUS430.
   Plating: Nickel 40u"-60u" for all and Sn 100%.