10/100/1000 Base T for Ethernet Application
- 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.
- Tab Up

## Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>OCL (μH Min) @ 100kHz, 0.1V</th>
<th>Turn Ratio (chip: cable)</th>
<th>Insertion Loss (dB Max)</th>
<th>Return Loss (dB Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmit open circuit inductance (OCL): 350uH (MIN) @100KHz, 0.1VRMS with 8mA DC Bias</td>
<td>1:1 ± 5%</td>
<td>1-100MHz: 100-125MHz: 1-40MHz: 40-60MHz: 60-80MHz: 80-100MHz</td>
<td>-1.0: -1.2: -16: -12: -10: -8</td>
</tr>
</tbody>
</table>

## Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Cross Talk (dB Min)</th>
<th>Common Mode Attenuation (dB Min)</th>
<th>Isolation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-100MHz</td>
<td>1-100MHz</td>
<td>1500 VAC</td>
</tr>
<tr>
<td>-30</td>
<td>-30</td>
<td></td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

## MECHANICAL

UNIT: mm
- A = 59.13
- B = 14.04
- C = 25.36
- D = 3.10
- Tolerances ±0.254
NOTES

1. CONNECTOR MATERIAL:
   HOUSING: THERMOPLASTIC BLACK UL94 V-0
   SHIELD: Brass
   SHIELD PLATING: NICKEL
   CONTACT: PROSHPOR BRONZE
   CONTACT PLATING: SELECTIVE GOLD, 6 MICRO-INCHES MIN IN CONTACT AREA

2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED SEE ELECTRICAL DRAWING FOR OMITTED PINS

3. RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATION PART 68.

4. THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECS MAX

5. OPERATING TEMPERATURE T=-40°C TO +70°C

6. STORAGE TEMPERATURE T=-40°C TO -85°C.