NOTES:

1. CONNECTOR MATERIAL:
   HOUSE: THERMOPLASTIC UL94 V-0
   SHIELD: Brass
   SHIELD PLATING: NICKEL
   CONTACT: COPPER ALLOY
   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=0°C TO +70°C.

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

7. ALL CRITICAL DIMENSIONS WITH “*”

8. PACKAGING INFORMATION: 50 PCS/TRAY, 1200 PCS/BOX.

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Electrical Specifications:

1.0 Turn Ratio @100KHz: \((P1 \sim P2)\):\((J1 \sim J2) = 1:1 \pm 5\%\)
\((P3 \sim P6)\):\((J3 \sim J6) = 1:1 \pm 5\%\)

2.0 Primary Inductance: 350uH MIN @100KHZ, 0.1V 8mA DC BIAS

3.0 DC Resistance: \((J1 \sim J2)\):\((J3 \sim J6) = 1.2 \text{ OMS MAX}\)

4.0 Insertion Loss:
- 1–100MHz: \(-1.2\text{dB MAX}\)
- 1–30MHz: \(-16\text{dB MIN}\)
- 30–60MHz: \(-12\text{dB MIN}\)
- 60–80MHz: \(-10\text{dB MIN}\)

5.0 Return Loss:
- 1–100MHz: \(-30\text{dB MIN}\)

6.0 CROSS TALK:
- 1–100MHz: \(-30\text{dB MIN}\)

7.0 COMMON TO COMMON MODE ATTENUATION: 1–100MHz: \(-30\text{dB MIN}\)

8.0 Isolation: PHY Side to Line Side: 1500VAC or 2250VDC

LED SPECIFICATION

<table>
<thead>
<tr>
<th>STANDARD LED</th>
<th>WAVELENGTH</th>
<th>Forward V(max)</th>
<th>TYP</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREEN</td>
<td>565nm</td>
<td>2.4V</td>
<td>2.2V</td>
</tr>
<tr>
<td>YELLOW</td>
<td>590nm</td>
<td>2.5V</td>
<td>2.1V</td>
</tr>
</tbody>
</table>

*with a forward current of 20mA
DIMENSIONS ARE IN MILLIMETERS [INCHES] WITH THE FOLLOWING TOLERANCES: [INCHES] ARE FOR REFERENCE ONLY.
X.XX= ±0.25 [±0.010]

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**Dimensions**

Dimensions are in millimeters [inches] with the following tolerances: [inches] are for reference only.

**KEEP-OUT AREA (COMPONENT SIDE SHOWN)**

**RECOMMENDED PWB LAYOUT (COMPONENT SIDE SHOWN)**

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<table>
<thead>
<tr>
<th>PRODUCT DESCRIPTION</th>
<th>TLA DRAWING</th>
<th>PS_DRAWING</th>
<th>SHEET</th>
<th>PART NO.</th>
<th>DATASHEET REV.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONN,RJ45,1X1,100D,1:1,TU</td>
<td>JD0-0003NL-10</td>
<td>–</td>
<td>4 OF 5</td>
<td>JD0-0003NL</td>
<td>D</td>
</tr>
</tbody>
</table>
DIMENSIONS ARE IN MILLIMETERS [INCHES] WITH THE FOLLOWING TOLERANCES: [INCHES] ARE FOR REFERENCE ONLY.
X,XX = ±0.10 [±0.004]

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