ELECTRICAL CHARACTERISTICS @ 25°C

**LED 1 & 3 POLARITY**

<table>
<thead>
<tr>
<th>PIN 11</th>
<th>PIN 12</th>
<th>COLOR</th>
<th>PIN 13</th>
<th>PIN 14</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ORANGE</td>
<td></td>
<td></td>
<td>ORANGE</td>
</tr>
<tr>
<td>+</td>
<td>-</td>
<td>GREEN</td>
<td>+</td>
<td>-</td>
<td>GREEN</td>
</tr>
</tbody>
</table>

**LED 2 & 4 POLARITY**

<table>
<thead>
<tr>
<th>PIN 11</th>
<th>PIN 12</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>12</td>
<td>ORANGE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GREEN</td>
</tr>
</tbody>
</table>

**TURNS RATIO**

- TP1: 1CT : 1CT ±2%
- TP2: 1CT : 1CT ±2%
- TP3: 1CT : 1CT ±2%
- TP4: 1CT : 1CT ±2%

**DCL @ 100kHz/100mVRMS**

(-40°C - 85°C) 180μH MIN.

**INS. LOSS**

- 1MHz TO 150MHz: -0.004(fMHz)+0.4 dB MAX
- 1MHz-40Hz: -20 dB MIN
- 40.1MHz-150MHz: -20+15LOG(f/40MHz) dB MIN

**RET. LOSS**

- 1MHz-40Hz: -20 dB MIN
- 40.1MHz-150MHz: -20+15LOG(f/40MHz) dB MIN

**CROSSTALK**

- 1MHz - 40Hz: -35 dB MIN
- 40.1MHz-150MHz: -35+15LOG(f/40MHz) dB MIN

**CM TO CM REJ**

- 1MHz - 150MHz: -25 dB MIN

**HIPOT (Isolation Voltage): 2250 VDC**

100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

**NOTE:** PORT-TO-PORT ISOLATION NOT INCLUDED.

**LEDs 1, 2, 3 AND 4**

- VF (FORWARD VOLTAGE) IF=20mA: ORANGE 2.0V TYP., GREEN 2.2V TYP.
- λD (DOMINANT WAVELENGTH) IF=20mA: ORANGE 605nm TYP., GREEN 570nm TYP.

**OPERATING TEMPERATURE:** -40°C TO +85°C.
MECHANICAL SPECIFICATION

NOTES:
PLASTIC HOUSING: THERMOPLASTIC PBT, BLACK
FLAMMABILITY RATING UL 94V-0
CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.
OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
METAL SHIELD: NICKEL PLATED COPPER ALLOY.
(ALL LEADS ARE SOLDER DIPPED)
1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS,
   PART 68 SUBPART F.
2. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

3. THE PRODUCT IS RoHS COMPLIANT.
4. UL RECOGNIZED - FILE #E196366 AND E169987.
5. THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE
   U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.
6. THE PART IS RECOMMENDED FOR WAVE SOLDERING.
   THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS
   260°C MAX AND 10 SECONDS MAX.

ORIGINATED BY
ANTON LIAD
DATE 2022-12-26

DRAWN BY
SANDY LIN
DATE 2022-12-26

TITLE 2X1 2.5 gigabit MagJack®
WITH UPPER AND LOWER LED
(8 Cores, Extended Temp.)
PATENTED

PART NO. / DRAWING NO. 0879-2B1R-JE

STANDARD DIM.
TOL. IN 0.001 INCH
UNIT : INCH [mm]
AS REF.

FILE NAME 0879-2B1R-JE_A.DWG
SCALE : N/A
SIZE : A4
PORT ASSIGNMENT
<Component Side View>

PIN-OUT INFORMATION
<Component Side View>

10 GND
9 TRC1/2/3/4
8 TRD 4+
7 TRD 4-
6 TRD 3+
5 TRD 3-
4 TRD 2+
3 TRD 2-
2 TRD 1+
1 TRD 1-
14 GREEN (-) ORANGE (+)
13 GREEN (+) ORANGE (-)
12 GREEN (-) ORANGE (+)
11 GREEN (+) ORANGE (-)

THE SHAD ED AREA ON THE CUSTOMER BOARD ARE
RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR
COMPONENT PAD.

DC002(2)1202114
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SUGGESTED PANEL OPENING

NOTE:
THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION. IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

PACKING INFORMATION

PACKING TRAY: 0200-9999-P8 (TOP)
0200-9999-P9 (BOTTOM)

PACKING QUANTITY: 40 PCS FINISHED GOODS PER TRAY
7 TRAYS (280 PCS FINISHED GOODS) PER CARTON BOX

NOTE: CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX (INCLUDE THE UPPERMOST AND LOWERMOST TRAY)