LED 2 & 4 POLARITY LED 1 & 3 POLARITY
PIN 11 PIN 12 COLOR PIN 13 PIN 14 COLOR
- + ORANGE - + ORANGE
+ - GREEN + - GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

TURN RATIO
TP1 1CT : 1CT ±2%
TP2 1CT : 1CT ±2%
TP3 1CT : 1CT ±2%
TP4 1CT : 1CT ±2%

OCL @ 100kHz/100mVRMS
(-40°C - 85°C) 180µH MIN.

RET. LOSS (MIN)
1MHz-40MHz -10 dB MIN
40MHz-250MHz -10+10LOG10(f/40MHz) dB MIN

CM TO CM REJ
100kHz - 100mHz -30 dB MIN

CM TO DM REJ
100kHz - 100mHz -35 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.
AD (Dominant Wavelength) IF=20mA ORANGE 605nm TYP.
GREEN 570nm TYP.

OPERATING TEMPERATURE: -40°C TO +85°C.
NOTES:

1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
2. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND PATENTED.
3. THE PRODUCT IS RoHS COMPLIANT.
5. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

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.
100 MICRO-INCH MIN MATTE TIN. PINS ARE SOLDER DIPPED.

METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)

0.163 [4.14] GROUND LEADS
0.120 [3.05] LED & SIGNAL LEADS
0.025 [0.64] 0.055±0.020 [1.397±0.51] 0.185 [4.70] 0.423 [10.74] 1.130 [28.70] MAX.
1.004 [25.50] 0.550 [13.97] TYPICAL

0.550 [13.97] [13.97]
1.004 [25.50] [25.50]
0.185 [4.70] [4.70] 0.423 [10.74] [10.74] 1.130 [28.70] 1.226 [31.14]
PIN-OUT INFORMATION

PORT ASSIGNMENT
(COMPONENT SIDE VIEW)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED 1 FOR UPPER PORT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LED 2 FOR UPPER PORT</td>
<td></td>
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<tr>
<td>LED 3 FOR LOWER PORT</td>
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<tr>
<td>LED 4 FOR LOWER PORT</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PIN NUMBER</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>GND</td>
</tr>
<tr>
<td>9</td>
<td>TRCT1/2/3/4</td>
</tr>
<tr>
<td>8</td>
<td>TRD 4+</td>
</tr>
<tr>
<td>7</td>
<td>TRD 4-</td>
</tr>
<tr>
<td>6</td>
<td>TRD 3+</td>
</tr>
<tr>
<td>5</td>
<td>TRD 3-</td>
</tr>
<tr>
<td>4</td>
<td>TRD 2+</td>
</tr>
<tr>
<td>3</td>
<td>TRD 2-</td>
</tr>
<tr>
<td>2</td>
<td>TRD 1+</td>
</tr>
<tr>
<td>1</td>
<td>TRD 1-</td>
</tr>
</tbody>
</table>

0.990 [25.15]
1.290 [32.77]
1.141 [28.99]
1.082 [27.49]
0.530 [13.46]
0.425 [10.80]

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

ORIGINATED BY
ANTON LIAO
DATE 2021-03-19

DRAWN BY
LI QUANKUN
DATE 2021-03-19

TITLE
2X2 5 giga bit MagJack®
WITH UPPER AND LOWER LED
(8 Cores, Extended Temp.)
PATENTED

PART NO. / DRAWING NO.
0879-2B2J-JY
0879-2B2J-JY_2.DWG

STANDARD DIM. TOL. IN INCH [ ] METRIC DIM. AS REF.
X UNIT : INCH [mm]
XX SCALE : N/A
XXX ±0.004 SIZE : A4

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SEE DETAIL A

Φ0.062 [Φ1.57] 5 PLACES

SUGGESTED FOOTPRINT

COMPONENT SIDE VIEW

Recommended PCB front edge cutout. The bottom shield ground tabs (front) should not be seated on the top of the PCB.
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-P5 (TOP)
- 0200-9999-P6 (BOTTOM)

- Packing Quantity: 20 pcs finished goods per tray
- 7 trays (196 pcs finished goods) per carton box

Note: Cardboards are placed between layers of packing tray inside carton box (include the uppermost and lowermost tray)