ELECTRICAL CHARACTERISTICS @ 25°C

<table>
<thead>
<tr>
<th>LED1 POLARITY</th>
<th>LED2 POLARITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN 27</td>
<td>PIN 28</td>
</tr>
<tr>
<td>PIN 29</td>
<td>PIN 39</td>
</tr>
<tr>
<td>COLOR</td>
<td>COLOR</td>
</tr>
<tr>
<td>-</td>
<td>+</td>
</tr>
<tr>
<td>GREEN</td>
<td>+ GREEN</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TURN RATIO</th>
<th>1CT : 1CT</th>
<th>±2%</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP1</td>
<td>1CT : 1CT</td>
<td>±2%</td>
</tr>
<tr>
<td>TP2</td>
<td>1CT : 1CT</td>
<td>±2%</td>
</tr>
<tr>
<td>TP3</td>
<td>1CT : 1CT</td>
<td>±2%</td>
</tr>
<tr>
<td>TP4</td>
<td>1CT : 1CT</td>
<td>±2%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DCL (+) 100kHz, 100mVRMS</th>
<th>8mA DC BIAS</th>
<th>350 µA MIN.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM T/O CM REJ 100kHz - 100MHz</td>
<td>25 dB TYP</td>
<td></td>
</tr>
<tr>
<td>CROSSTALK 1MHz - 60MHz</td>
<td>35 dB TYP</td>
<td></td>
</tr>
<tr>
<td>60MHz - 100MHz</td>
<td>25 dB TYP</td>
<td></td>
</tr>
<tr>
<td>HIPOT (Isolation Voltage)</td>
<td>1500 Vrms</td>
<td></td>
</tr>
</tbody>
</table>

100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 952.3 ISOLATION REQUIREMENTS.

LED 1
VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

LED 2
VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.
YELLOW 2.1V TYP.
YELLOW 590nm TYP.

OPERATING TEMPERATURE: 0°C TO +70°C.
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**
  - 8mA DC BIAS: 350 µA MIN.

- **INS. LOSS**
  - 100kHz to 100MHz: -11 dB MAX

- **RET. LOSS (MIN)**
  - 1MHz-30MHz: -10 dB
  - 30MHz-60MHz: -16 dB
  - 60MHz-80MHz: -14 dB
  - 80MHz-100MHz: -12 dB

- **CM TD CM REL**
  - 100kHz - 100MHz: -25 dB TYP

- **CRDSS TALK**
  - 1MHz - 60MHz: -35 dB TYP
  - 60MHz - 100MHz: -25 dB TYP

- **HIPDT (Isolation Voltage):**
  - 1500 Vrms

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

- **LED 3 (Super bright)**
  - VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
  - AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

- **LED 4 (Super bright)**
  - VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
  - AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

OPERATING TEMPERATURE: 0°C TO +70°C.
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NOTES:
THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

ORIGINATED BY
ANTON LIAD
DATE 2022-04-14

DRAWN BY
SANDY LIN
DATE 2022-04-14

2X1 gigabit MagJack®
<WITH LED>
PATENTED

PART NO. / DRAWING NO.
0845-2R1T-E4D

FILE NAME
0845-2R1T-E4D_1.DWG

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

RoHS
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-H5 (TOP)
0200-9999-H6 (BOTTOM)

PACKING QUANTITY: 40 PCS FINISHED GOODS PER TRAY
6 TRAYS (240 PCS FINISHED GOODS) PER CARTON BOX.

NOTE: CARDBOARD ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX.
(INCLUDE THE UPPERMOST AND LOWEREST TRAY)