INTEGRATED CONNECTOR MODULES
0838-1X1T-W7 Gigabit Power over Ethernet Plus Single Port MagJack® with LEDs

LECI) POLARITY LED2 POLARITY
PIN 17 PIN 18 COLOR PIN 19 PIN 20 COLOR
- + YELLOW - + GREEN
+ - ORANGE

ELECTRICAL CHARACTERISTICS @ 25°C

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

DNL @ 100kHz, 20mVRMS AND 24mA DC BIAS FROM 0°C TO 70°C = 350μH MIN:
PAtES (1-2), (3-6), (4-5) AND (7-8).

INS. LOSS

- 0.1MHz TO 1MHz -0.8 dB MAX
- 1MHz TO 65MHz -0.6 dB MAX
- 65MHz TO 100MHz -0.8 dB MAX
- 100MHz TO 125MHz -1.7 dB MAX

RET. LOSS (MIN)

- 0.5MHz-40MHz -18 dB
- 40MHz-100MHz -12+20LOG(f/80MHz) dB

CROSS TALK

- 100kHz - 1MHz -60dB MIN
- 1MHz - 100MHz -35dB MIN

CM TO CM REJ

- 100kHz -100MHz -30 dB MIN.

CM TO DM REJ

- 100kHz -100MHz -25dB MIN.

HIPOT (Isolation Voltage): 2250 VDC

LED 1

- VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.
- λ(o) (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

LED 2

- VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
- λ(o) (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.

DCR PINS CABLE SIDE (1-2), (3-6), (4-5) AND (7-8):

1.0 OHMS MAX.

BALANCED DC LINE CURRENT 700 mA MAX. @ 57 VDC CONTINUOUS
1.2A MAX. @ 57 VDC FOR 200 MILISECONDS

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Refer to the manufacturers website for the latest revision of this datasheet.
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RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW

Refer to the manufacturer's website for the latest revision of this datasheet.
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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-R3 (TOP)  
0200-9999-R4 (BOTTOM)
PACKING QUANTITY: 42 PCS FINISHED GOODS PER TRAY  
10 TRAYS (420 PCS FINISHED GOODS) PER CARTON BOX
NOTE: CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX  
(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)