INTEGRATED CONNECTOR MODULES

0838-1X1T-W6 Power over Ethernet Plus Single Port MagJack® with LEDs

<table>
<thead>
<tr>
<th>LED1 POLARITY</th>
<th>LED2 POLARITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN 17</td>
<td>PIN 18</td>
</tr>
<tr>
<td>-</td>
<td>+</td>
</tr>
</tbody>
</table>

ELECTRICAL CHARACTERISTICS @ 25°C

- **Turns Ratio**
  - TP1: 1CT : 1CT ±2%
  - TP2: 1CT : 1CT ±2%

- **DCL @ 100kHz, 20mVRMS AND 24mA DC BIAS FROM 0°C TO 70°C = 350uH MIN. PAIRS (1-2) AND (3-6).**

- **Rin Loss (MIN)**
  - 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

- **Ref. Loss (MIN)**
  - 0.5MHz TO 40MHz: -10 dB
  - 40MHz TO 100MHz: -12+20LOG(f/80MHz) dB

- **Cross Talk**
  - 100kHz - 1MHz: -60 dB MIN.
  - 1MHz - 100MHz: -35 dB MIN.

- **CM to CM Rej**
  - 100kHz - 100MHz: -30 dB MIN.

- **CM to DM Rej**
  - 100kHz - 100MHz: -25 dB MIN.

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

- **LED 1**
  - Vf (Forward Voltage): IF=20mA YELLOW 2.1V TYP.
  - λd (Dominant Wavelength): IF=20mA YELLOW 590nm TYP.

- **LED 2**
  - Vf (Forward Voltage): IF=20mA GREEN 2.2V TYP.
  - λd (Dominant Wavelength): IF=20mA GREEN 565nm TYP.
  - ORANGE 2.0V TYP.
  - ORANGE 610nm TYP.

- **DCR Pins Cable Side (1-2) AND (3-6)**
  - 10 OHMS MAX.

- **Balanced DC Line Current**
  - 700 mA MAX. @ 57 VDC CONTINUOUS
  - 1.2A MAX. @ 57 VDC FOR 200 MILLISECONDS

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Refer to the manufacturers website for the latest revision of this datasheet.
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MECHANICAL SPECIFICATION:

NOTES:
PLASTIC HOUSING: THERMOPLASTIC PBT.
FLAMMABILITY RATING UL 94V-0.
CONTACTS: 50 MICRO-INCH HARD GOLD PLATING.
OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH AND 0.016 INCH.
METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
ALL GROUND LEADS ARE SOLDER DIPPED.
MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.
UL RECOGNIZED - FILE #E196366 AND E169987.
RoHS COMPLIANT, PER EU DIRECTIVE 2002/95/EC
JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
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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)

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