ELECTRICAL CHARACTERISTICS @ 25°C

<table>
<thead>
<tr>
<th>TURN RATIO</th>
<th>1CT : 1CT ±2%</th>
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<tbody>
<tr>
<td>TP1</td>
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<td>TP2</td>
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<td>TP3</td>
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<td>TP4</td>
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OCL @ 100kHz/100mVRMS (4 CHANNEL)

- 8mA DC BIAS: 350μH MIN.
- 23mA DC BIAS: 120μH MIN.

INS. LOSS

- 0.1MHz TO 1MHz: -11 dB MAX
- 1MHz TO 65MHz: -0.8 dB MAX
- 65MHz TO 100MHz: -1.0 dB MAX
- 100MHz TO 125MHz: -1.2 dB MAX

RET. LOSS (MIN)

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

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

BALANCED DC LINE CURRENT 1A MAX CONTINUOUS

1.2A MAX, FOR 200 MILLISECONDS

OPERATING TEMPERATURE: -40°C TO 100°C
MECHANICAL SPECIFICATION

NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA, BLACK.
FLAMMABILITY RATING UL 94V-0
CONTACTS: 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)

1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND PATENTED.
2. UL RECOGNIZED - FILE #E196366 AND E169987.
3. THE PRODUCT IS RoHS COMPLIANT.
4. THE PRODUCT IS PATENTED. THE PATENT NUMBER IS U.S. PAT. 7,123,117.
5. THE PART IS RECOMMENDED FOR WAVE SOLDERING.
   THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

FORMED BY:
LI QUANKUN
DATE: 2022-10-10

DRAWN BY:
OLIVER ZHANG
DATE: 2022-10-10

FILE NAME:
0816-1X1T-HS-F_A.DWG

PATENTED

gigabit MagJack®
(4PPoE, 100W, Extended Temp.)

PART NO. / DRAWING NO.
0816-1X1T-HS-F

STANDARD DIM. TOL. INCH [ ] METRIC DIM. AS REF.

UNIT: INCH [mm]
SCALE: N/A
SIZE: A4

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NOTES

THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.
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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-F1 (TOP)
0200-9999-F2 (BOTTOM)

PACKING QUANTITY : 40 PCS FINISHED GOODS PER TRAY
10 TRAYS (400 PCS FINISHED GOODS) PER CARTON BOX

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