**LED1 POLARITY** | **LED2 POLARITY**
---|---
- | +
YELLOW | GREEN
+ | -
ORANGE | -

**ELECTRICAL CHARACTERISTICS @ 25°C**

**TURNS RATIO**
- TP1: 1CT : 1CT 42%
- TP2: 1CT : 1CT 42%
- TP3: 1CT : 1CT 42%
- TP4: 1CT : 1CT 42%

**DCL @ 100kHz/100mVRMS**
- 8mA DC BIAS (-40°C - 85°C) 160μH MIN.

**INS. LOSS**
- 1MHz TO 150MHz: -0.004(FMHz)-0.4 dB MAX

**RET. LOSS**
- 1MHz-40MHz: -20 dB MIN
- 40MHz-150MHz: -20+15LOG(f/40MHz) dB MIN

**CROSSTALK**
- 1MHz - 40MHz: -35 dB MIN
- 40MHz-150MHz: -35+15LOG(f/40MHz) dB MIN

**CM TO CM REJ**
- 1MHz - 150MHz: -25 dB MIN

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

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

**OPERATING TEMPERATURE:**
- -40°C TO 85°C

**LED 1 (HI-TEMP)**
- VF (FORWARD VOLTAGE) IF=20mA: YELLOW 2.1V TYP,
- λD (DOMINANT WAVELENGTH) IF=20mA: YELLOW 590nm TYP,

**LED 2 (HI-TEMP)**
- VF (FORWARD VOLTAGE) IF=20mA: GREEN 2.2V TYP,
- λD (DOMINANT WAVELENGTH) IF=20mA: ORANGE 605nm TYP,
- ORANGE 570nm TYP,

**5x25 OHMS**

**1000pF 2kV**

**SHIELD 7777**

**FILE NAME**
- L836-1J1T-KDN
- L836-1J1T-KDN_1.DWG
NOTES:
PLASTIC HOUSING: THERMOPLASTIC PA, BLACK
FLAMMABILITY RATING UL 94V-0
CONTACTS: 30 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 PART NUMBER, DATE CODE AND PATENTED.
2. MARK PART WITH MFG. LOGO, MFG. NAME.
3. THE PRODUCT IS RoHS COMPLIANT.
4. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
   PART 68 SUBPART F.
5. UL RECOGNIZED - FILE #E196366 AND E169987.
6. THE AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.
7. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE
   SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C
   MAX AND 10 SECONDS MAX.
RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW

FOR ONE UNIT

2.5 gigabit MagJack®
(Ultra Low Profile)
PATENTED

PART NO. / DRAWING NO.
L836-1J1T-KDN

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

FILE NAME
L836-1J1T-KDN_1.DWG

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

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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.

TRAY PACKING INFORMATION

PACKING TRAY : 0200-9999-E4 (TOP)  
0200-9999-E5 (BOTTOM)

PACKING QUANTITY : 60 PCS FINISHED GOODS PER TRAY
11 TRAYS (660 PCS FINISHED GOODS) PER CARTON BOX

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