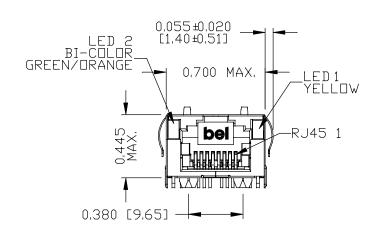
THE INFORMATION CONTAINED HEREIN IS CONSIDERED RoHS PRELIMINARY "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC. LED1 13 🕶 LED1 POLARITY LED2 POLARITY SCHEMATIC PIN 13 | PIN 14 COLOR PIN 15 PIN 16 PIN 17 COLOR YELLOW PIN R.J45 YELLOW DRANGE GREEN ELECTRICAL CHARACTERISTICS @ 25°C 1CT : 1CT TURNS RATIO 1 TRP1+ TRD1+ 11 • TP1 1CT : 1CT ±2% TP2 1CT : 1CT ±2% TRCT1 12 • TP3 1CT: 1CT ±2% \leq TRD1- 10 •─ 2 TRP1-TP4 1CT: 1CT ±2% DCL @ 100kHz/100mVRMS 1CT : 1CT 一 3 TRP2+ TRD2+ 8mA DC BIAS (-40°C - 85°C) 160µH MIN. \geq INS. LOSS TRCT2 6 ← 1MHz TΠ 150MHz -0.004(fMHz)-0.4 dB MAX \leq TRD2- 5 ← TRP2-RET, LOSS \Box 1CT : 1CT 1MHz-40MHz -20 dB MIN TRD3+ 3 ← TRP3+ 40.1MHz-150MHz -20+15LOG(f/40MHZ) dB MIN TRCT3 1 ← CROSS TALK 1MHz - 40MHz-35 dB MIN TRP3-TRD3- 2 •-40.1MHz-150MHz $-35+15L\Box G(f/40MHZ)$ dB MIN 1CT : 1CT TRD4+ 8 •-TRP4+ CM TO CM REJ 1MHz - 150MHz -25 dB MIN TRCT4 7 ← π HIPOT (Isolation Voltage): 1500 VRMS TRD4- 9 •-TRP4-100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802,3 ISOLATION REQUIREMENTS. LED 1 (HI-TEMP) C□MM□N 16 • VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP. AD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP. 4X 75 □HMS \$ LED 2 (HI-TEMP) GREEN 17 VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP. DRANGE 15← 1000pF 2kV 2.0V TYP. DRANGE LED2 λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP SHIELD 7777 605nm TYP. DRANGE OPERATING TEMPERATURE: 2 -40°C T□ 85°C 2 PAGE: REV. : ORIGINATED BY PART NO. / DRAWING NO. TITLE STANDARD DIM. [] METRIC DIM. CHOW WANCHUNG AS REF. 2.5 gigabit MagJack® TOL. IN INCH I 830-1,J1D-JM DATE 2022-12-15 UNIT : INCH [mm] (Ultra Low Profile) DRAWN BY FILE NAME SCALE : N/A TANG YUAN .XX PATENTED a bel group L830-1J1D-JM 2,DWG DATE 2022-12-15 SIZE : A4 DC002(2)120214 This document is electronically generated. This is a controlled copy if used internally

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MECHANICAL SPECIFICATION







NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA, BLACK

FLAMMABILITY RATING UL 94V-0

CONTACTS: 30 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.

DUTPUT PINS: TIN-CDATED COPPER WIRE, DIA 0.018 INCH.

100 MICRO-INCH MIN MATTÉ TIN.

PINS ARE SOLDER DIPPED.

METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.

(ALL GROUND LEADS ARE SOLDER DIPPED)

 MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER, DATE CODE AND PATENTED.

c Tus ul recognized - file #E196366 AND E169987.

0.100 [2.54] PITCH 0.350 [8.89] 0.100 [2.54] 0.100 [2.54] 0.100 [2.54] VALENT.

- 3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- 4. THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S. PAT. 6,840,817 AND 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.

2. THE PRODUCT IS ROHS COMPLIANT.

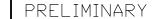
TITLE

ORIGINATED BY
LI QUANKUN
DATE 2022-12-15

DRAWN BY
DLIVER ZHANG
DATE 2022-12-15

2.5 gigabit MagJack[®] (Ultra Low Profile) PATENTED 

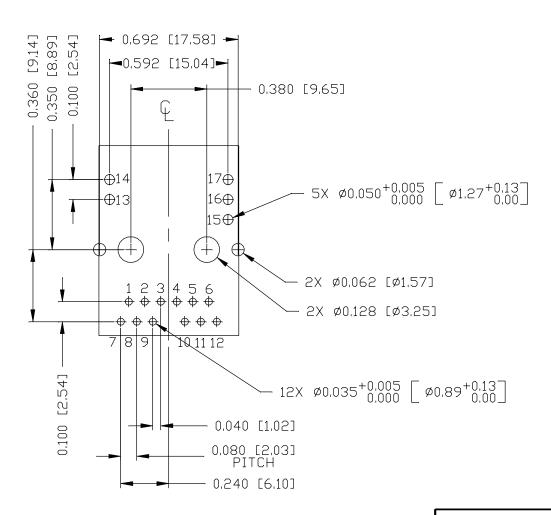
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RoHS

RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW



ORIGINATED BY	TITLE
LI QUANKUN	
DATE 2022-12-15	
DRAWN BY	
OLIVER ZHANG	
DATE 2022-12-15	

2.5 gigabit MagJack[®] (Ultra Low Profile) PATENTED
 PART NO. / DRAWING NO.
 STANDARD DIM.
 [] METRIC DIM.

 L830-1J1D-JM
 .X
 UNIT : INCH [mm]

 .XX
 SCALE : N/A

 .XXX
 ±0.004
 SIZE : A4

PAGE: 4

PAGE: 4

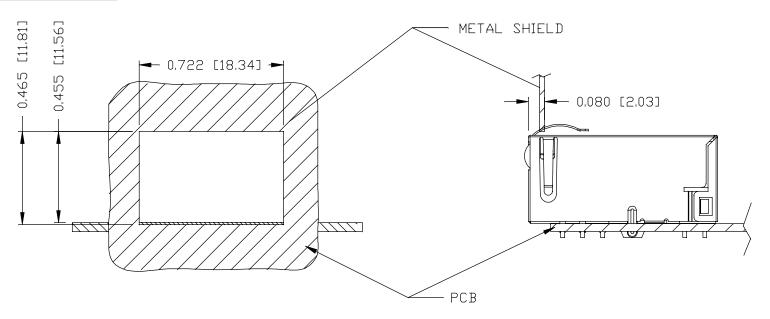
MAGNETIC SOLUTIONS
a bel group

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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.

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)

						Ľ
ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STAND	ARD DIM.	[] METRIC DIM.	
LI QUANKUN	2.5 gigabit MagJack [®]	L830-1J1D-JM	TOL.	IN INCH	AS REF.	l
DATE 2022-12-15	(Ultra Low Profile)	2000 1012 011	v		UNIT : INCH [mm]	ı
DRAWN BY	(Ultra Low Frontie)	FILE NAME				1
OLIVER ZHANG	PATENTED	1 000 1 11 11 11 0 11 0 11 15	.XX		SCALE : N/A]
DATE 2022-12-15		L830-1J1D-JM_2,DWG	.XXX	±0,005	SIZE : A4	
D0000(0)400044	PR1 1 1					•••

