THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE LED1 POLARITY LED2 POLARITY RoHS COPIED, REPRODUCED OR DISCLOSED WITHOUT THE PIN 13 PIN 14 PIN 15 PIN 16 PIN 17 COLOR COLOR WRITTEN APPROVAL OF BEL FUSE INC. YELLOW DRANGE **GREEN** SCHEMATIC PIN ELECTRICAL CHARACTERISTICS @ 25°C RJ45 LED 1 TURNS RATIO 13 ← TP1 1CT : 1CT ±2% YELLOW TP2 1CT : 1CT ±2% TP3 1CT : 1CT ±2% 14 • 1CT : 1CT TP4 1CT : 1CT ±2% TRD1+ 11 • 1 TRP1+ DCL @ 100kHz/100mVRMS TRCT1 12 • 8mA DC BIAS (0°C - 70°C) 180 µH MIN. 19mA DC BIAS (0°C - 70°C) 120 uH MIN. TRD1-10 TRP1-1CT : 1CT TRD2+ 3 INS, LOSS TRP2+ 1MHz TO 150MHz -0.004(fMHz)-0.4 dB MAX TRCT2 \leq RFT. I DSS TRP2-TRD2--20 dB MIN 1MHz-40MHz 1CT : 1CT \Box TRP3+ TRD3+ 40.1MHz-150MHz $-20+15L\Pi G(f/40MH7) dB MIN$ CROSSTALK TRCT3 1MHz - 40MHz -35 dB MIN TRP3-TRD3- $-35+15L\Box G(f/40MHZ)$ dB MIN 40.1MHz-150MHz 1CT : 1CT TRP4+ TRD4+ 8 • CM TH CM REJ 70 1MHz - 150MHz -25 dB MIN TRCT4 HIPOT (Isolation Voltage): 2250 VDC 8 TRP4-TRD4-9 100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802,3 ISOLATION REQUIREMENTS. **OPERATING TEMPERATURE:** 0°C TD +70°C C□MM□N 16 ← LED 1 VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP. \$ 4X75 □HMS AD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP. GREEN 17 • LED 2 □RANGE 15 • 1000pF 2kV 2.2V TYP. VF (FORWARD VOLTAGE) IF=20mA GREEN LED2 DRANGE 2.0V TYP. SHIELD 7777 λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP. DRANGE 605nm TYP. REV. : PAGE: ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM. [] METRIC DIM. CHOW WANCHUNG 2.5 Gigabit MagJack® TOL. IN INCH AS REF. I 829-1,J1T-JM DATE 2016-09-02 (Ultra Low Profile) UNIT: INCH [mm] DRAWN BY FILE NAME LIN FENG LI PATENTED SCALE : N/A .XX a bel group

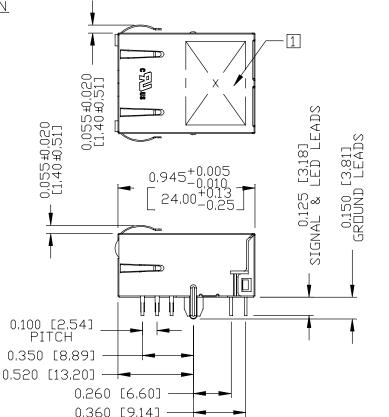
SIZE : A4

L829-1J1T-JM A,DWG

DATE 2016-09-02

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MECHANICAL SPECIFICATION



RoHS

LED2 BI-COLOR LED1 GREEN/ORANGE YELLOW RJ45 1 010 440+0,0 11,18+0 0,130 [3,30] 0,380 [9,65]

PLASTIC HOUSING: THERMOPLASTIC PA, BLACK

FLAMMABILITY RATING UL 94V-0

CONTACTS: MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.

MICRO-INCH MIN NICKEL UNDERPLATE.

DUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH

NICKEL PLATED ON COPPER ALLOY. METAL SHIELD:

(ALL GROUND LEADS ARE SOLDER DIPPED)

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

2. THE PRODUCT IS ROHS COMPLIANT.

- 3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS. PART 68 SUBPART F.
- 100 MICRO-INCH MIN MATTÉ TIN, PINS ARE SOLDER DIPPED, 4. THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S PAT. 7,123,117 AND U.S PAT. 6,840,817.
 - 5. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

RECOGNIZED - FILE #E196366 AND E169987. ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM. [] METRIC DIM. ANTON LIAO 2.5 Gigabit MagJack® TOL. IN INCH AS REF. L829-1J1T-JM DATE 2016-09-02 (Ultra Low Profile) UNIT : INCH [mm] DRAWN BY FILE NAME PATENTED SCALE: N/A LIU DONGJUN .XX L829-1J1T-JM A,DWG DATE 2016-09-02 SIZE: A4 ±0,010

PAGE: REV. : MAGNETIC SOLUTIONS a bel group

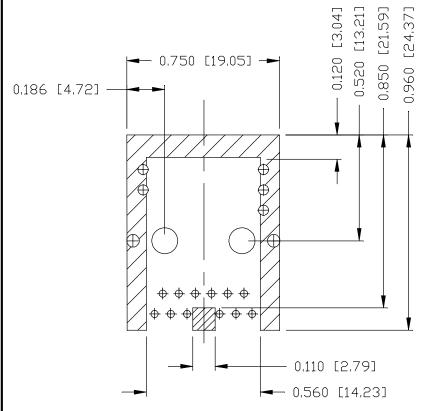
3

NOTES:

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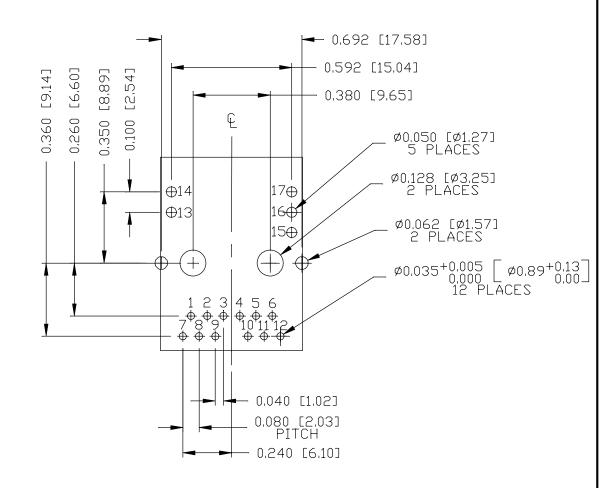
RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



NOTES:

DC002(2)120214

THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.



[] METRIC DIM.

UNIT : INCH [mm] SCALE: N/A

 \rightarrow | SIZE : A4

AS REF.

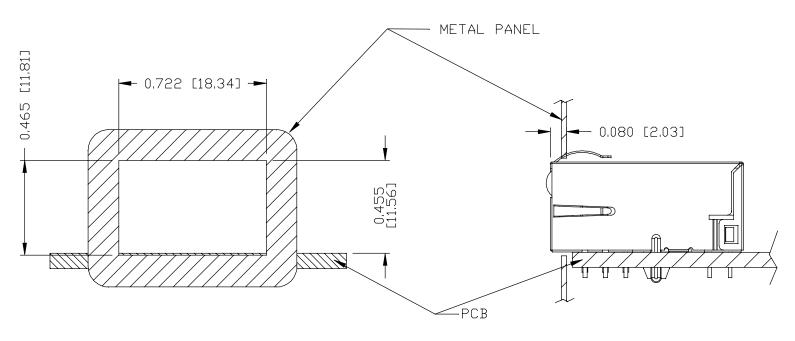
ORIGINATED BY	TITLE	PART NO. / DRAWING NO.		ARD DIM.
DATE 2016-09-02	2.5 gigabit MagJack [®]	L829-1J1T-JM	TOL.	IN INCH
DRAWN BY	(Ultra Low Profile)	FILE NAME	<u>.x</u>	-
LIU DONGJUN	PATENTED		.XX	
DATE 2016-09-02		L829-1J1T-JM_A.DWG	.xxx	±0,004

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SUGGESTED PANEL OPENING





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

NOTE:

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.	
ANTON LIAO Date 2016-09-02	2.5 gigabit MagJack [®] (Ultra Low Profile) PATENTED	L829-1J1T-JM	TOL. IN INCH		AS REF.	
~~~~			.x		UNIT : INCH [mm]	1
DRAWN BY Liu Dongjun		FILE NAME L829-1J1T-JM_A,DWG	.XX		SCALE : N/A	1
DATE 2016-09-02			.XXX	±0,004	SIZE : A4	

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MAGNETIC SOLUTIONS
a bel group