THE INFORMATION CONTAINED HEREIN IS CONSIDERED RoHS 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC PIN LED1 POLARITY LED2 POLARITY SCHEMATIC LED1 PIN 13 **PIN 14** COLOR PIN 15 PIN 16 **PIN 17** СП ПR 13 • YELLOW DRANGE YELLOW RJ45 GREEN MIXED YELLOW 1CT : 1CT TRD1+ 11 1 TRP1+ CHARACTERISTICS @ 25°C ELECTRICAL TRCT1 12 TURNS RATIO TP1 1CT : 1CT ±2% TRD1- 10 2 TRP1-TP2 1CT : 1CT ±2% TP3 1CT : 1CT ±2% 1CT : 1CT 3 TRP2+ TRD2+ 4 TP4 1CT : 1CT ±2% ww (0-70 Deg. C) DCL @ 100kHz/100mVRMS TRCT2 6 8mA DC BIAS 350 µH MIN. INS. LOSS TRD2-5 6 TRP2-0.1MHz TO 1MHz -1.1 dB MAX 1MHz TO 65MHz -0.5 dB MAX 1CT : 1CT 65MHz TO 100MHz -0.8 dB MAX TRD3+ 3 4 TRP3+ 100MHz TO 125MHz -1.2 dB MAX TRCT3 1 RET, LOSS (MIN) @100 OHMS ±15% 0.5MHz-40MHz -18 dBTRD3-2 5 TRP3-40MHz-100MHz  $-12+20L\Box G(f/80MHz) dB$ 1CT : 1CT CM TO CM REJ TRD4+ 8 7 TRP4+ 100kHz - 100MHz -30 dB MIN CM TO DM REJ TRCT4 7 100kHz - 100MHz -35 dB MIN HIPOT (Isolation Voltage): 1500 Vrms TRD4- 9 8 TRP4-100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802,3 ISOLATION REQUIREMENT 4X 75 DHMS C□MM□N 16 • 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) GREEN 17 • 1000pF 2kV VF (FORWARD VOLTAGE) IF=20mA YELLOW GREEN 2.2V TYP. DRANGE 15 • **AMBER** 2.1V TYP. LED2 λD (DDMINANT WAVELENGTH) IF=20mA YELLOW GREEN 570nm TYP. **AMBER** 607nm TYP. SHIELD 7777 MIXED YELLOW DOES NOT HAVE SPECIFIC WAVELENGTH, ORIGINATED BY DATE TITLE PART NO. / DRAWING NO. STANDARD DIM [ ] METRIC DIM. AS REFERENCE gigabit MagJack® TOL. IN INCH CHOW WANGCHUNG 10-13-10 L830-1J1T-43 UNIT: INCH [mm] REV. : (Ultra Low Profile) FILE NAME DRAWN BY DATE COMPONENTS FOR A CONNECTED PLANET SCALE: N/A SIZE: A4 PATENTED .XX 10-13-10 LEE WEIDE L830-1J1T-43 F.DWG PAGE: .XXX

This document is electronically generated. This is a controlled copy if used internally

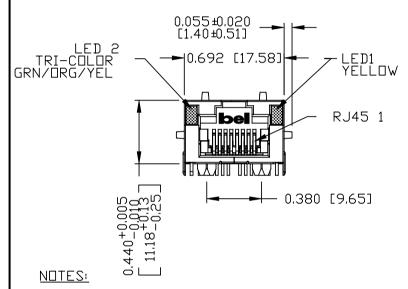
DC002(2)051509

THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

## MECHANICAL SPECIFICATION



<u>-1</u>



PLASTIC HOUSING: THERMOPLASTIC PA.

FLAMMABILITY RATING UL 94V-0 30 MICRO-INCH HARD GOLD PLATING

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

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. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

	/ -
EADS 20 :1	
140 0.070 [1.78] 15.5 15.5 16.6 16.6 16.6 16.6 16.6 16.6	0.945 <sup>+</sup> 0.005 24.00 <sup>+</sup> 0.133 0.070 [1.78] 0.070 [1.78]
0.150 [3.81] —	<del>                                     </del>
0.520 [13.21] —	<del> </del>
0.260	[6,60]
0,360	[9.14] <del>    -  </del>

c Tusul recognized - file #E196366 and E169987.

- 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. 5,736,910 AND U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDA	ARD DIM.	[ ] METRIC DIM. AS	REFERENCE	Γ.
CHEN BILL	10-13-10	gigabit MagJack®	L830-1J1T-43	TOL. I	N INCH	UNIT : INCH [mm]	REV. : F	
DRAWN BY	DATE	(Ultra Low Profile)	FILE NAME	.X		SCALE: N/A	SIZE: A4	, ا
NIXAIL NAIX	10-13-10	PATENTED	L830-1J1T-43_F.DWG	.XXX	±0.010	<b>+</b>	PAGE: 3	
		<u> </u>			-01010	_ 7	11102	ᆫ

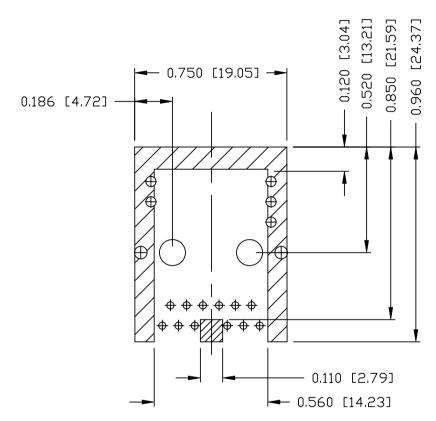


This document is electronically generated. This is a controlled copy if used internally

CONTACTS:

THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.



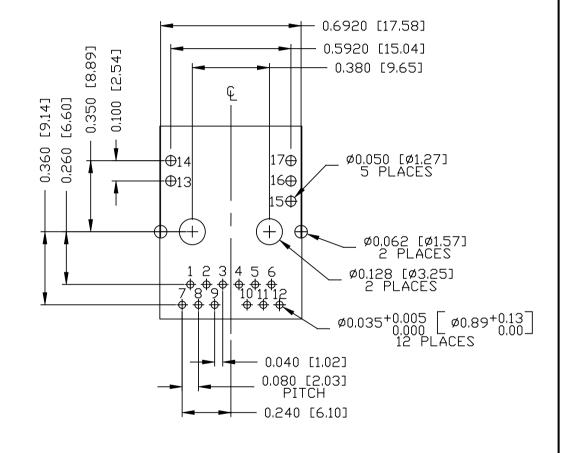


# NOTES:

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

TITLE

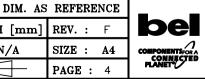
# RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



ORIGINATED BY	DATE			
CHEN BILL	10-13-10			
DRAWN BY	DATE			

gigabit MagJack® (Ultra Low Profile) PATENTED

PART NO. / DRAWING NO.	STANDA	ARD DIM.	[ ] METRIC I		
L830-1J1T-43	TOL. IN INCH		UNIT : INCH		
FILE NAME	.X		CCATE N		
111111111111111111111111111111111111111	.XX		SCALE: N		
1 1830-1.11T-43 F.DWG	YYY	+0 00 <i>4</i>	( <del>(b)                                   </del>		



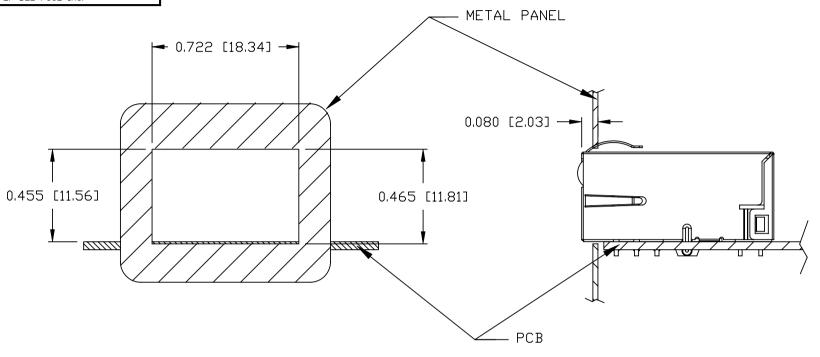
[mm] REV. :

This document is electronically generated. This is a controlled copy if used internally

THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

#### SUGGESTED PANEL OPENING





### NDTE:

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)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	
CHEN BILL	10-13-10	gigabit MagJack®	L830-1J1T-43	TOL. 1	IN INCH
DRAWN BY	DATE	(Ultra Low Profile)	FILE NAME	.X	
NIXAIL NAIX	10-13-10	PATENTED	L830-1J1T-43_F.DWG	.XXX	±0.004



[ ] METRIC DIM. AS REFERENCE
UNIT: INCH [mm] REV.: F

**SIZE** : **A4 PAGE** : 5

SCALE: N/A