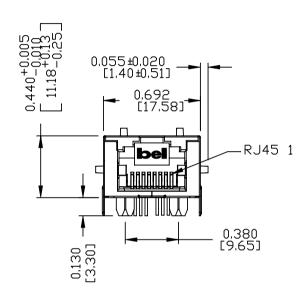
THE INFORMATION CONTAINED HEREIN IS CONSIDERED **RoHS** "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC. SCHEMATIC ELECTRICAL CHARACTERISTICS @ 25°C PIN RJ45 TURNS RATIO 1CT : 1CT TP1 1CT : 1CT ±2% TRD1+ 11 •-1 TRP1+ 1CT : 1CT ±2% TP2 TRCT1 12 • 1CT : 1CT ±2% TP3 1CT : 1CT ±2% TP4 TRD1- 10 •-2 TRP1-OCL @ 100kHz/100mVRMS 1CT : 1CT 8mA DC BIAS 350µH MIN. TRD2+ 4 3 TRP2+ INS. 1 ПSS TRCT2 6 • 0.1MHz TO 1MHz -1.1 dB MAX  $\sim$ 1MHz TD 65MHz -0.5 dB MAX TRD2-5 6 TRP2-65MHz TO 100MHz -0.8 dB MAX 100MHz TO 125MHz -1.2 dB MAX 1CT : 1CT TRD3+ 3 4 TRP3+ RET, LOSS (MIN) 0.5MHz-40MHz -18 dB TRCT3 1 40MHz-100MHz  $-12+20L\Box G(f/80MHz) dB$ 5 TRP3-TRD3- 2 CM TO CM REJ 1CT : 1CT 100kHz - 100MHz -30 dB MIN TRD4+ 8 7 TRP4+ CM TO DM REJ 100kHz - 100MHz -35 dB MIN TRCT4 7 HIPOT (Isolation Voltage): 1500 Vrms TRD4- 9 ◆ 8 TRP4-100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS. 4X 75 DHMS **OPERATING TEMPERATURE:** -40 TD +85°C 1000pF 2kV SHIELD 7777

ORIGINATED BY	DATE	TITLE gigabit MagJack®	PART NO. / DRAWING NO.	STANDARD DIM.	[ ] METRIC DIM. AS	REFERENCE	
CHOW WANGCHUN	G 12-09-10	(Extended Temperature and	L8AL-1X1T32A	TOL. IN INCH	UNIT : INCH [mm]	REV. : A	
DRAWN BY	DATE	50uinch gold plating ) L8AL-1X1T-32A	FILE NAME	.X   .xx	SCALE: N/A	SIZE: A4	COM
LEE WEIDE	12-09-10		L8AL-1X1T32A_A.DWG	.XXX		PAGE: 2	P.S
DC002(2)051509 This document is electronically generated. This is a controlled copy if used internally							

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### MECHANICAL SPECIFICATION





0.055±0.020 [1.40±0.51] 0,150 [3,81] GROUND LEADS 0.520 [13,20] -0.260 [6.60] 0,360 [9,14] -

NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA

FLAMMABILITY RATING UL 94V-0 50 MICRO-INCH HARD GOLD PLATING

CONTACTS: **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 L8AL-1X1T-32A AND DATE CODE AND PATENTED.
- 2. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

**%**Us UL RECOGNIZED - FILE #E196366 AND E169987.

- 3, JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
- 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 gigabit MagJack®
CHEN BILL	12-09-10	(Extended Temperature and
DRAWN BY	DATE	50uinch gold plating ) I 8AL-1X1T-32A
NIXAIL NAIX	12-09-10	PATENTED

PART NO. / DRAWING NO.	STANDARD DIM.		[ ] METRIC DIM. AS REFERENCE		
L8AL-1X1T32A			UNIT : INCH [mm]	REV. : A	1
FILE NAME	.XX		SCALE: N/A	SIZE: A4	1
L8AL-1X1T32A_A.DWG	.XXX	±0.010		PAGE: 3	L
					_



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0.692 [17.58] 0.380 [9.65]

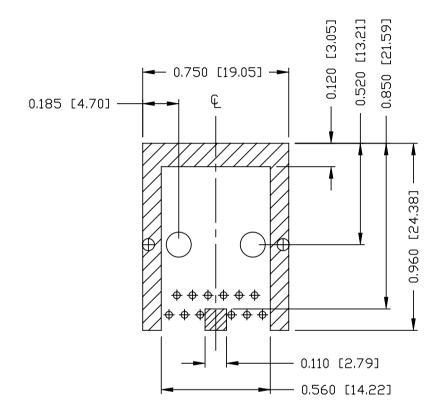
Ø0.062 [Ø1.57] 2 PLACES

Ø0.128 [Ø3.24] 2 PLACES

0.040 [1.02] 0.080 [2.03] PITCH

0.240 [6.10]

# RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



# NOTES:

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

ORIGINATED BY	DATE	TITLE gigabit MagJack®	PART NO. / DRAWING NO.	STAND	ARD DIM.	[ ] METRIC DIM. A	S REFERENCE	
CHEN BILL	12-09-10	(Extended Temperature and	L8AL-1X1T32A	TOL.	IN INCH	UNIT : INCH [mm]	REV. : A	
DRAWN BY	DATE	50uinch gold plating ) L8AL-1X1T-32A	FILE NAME	X		SCALE: N/A	SIZE: A4	1
NIXAIL NAIX	12-09-10	PATENTED	L8AL-1X1T32A_A.DWG	.XXX	±0.004		PAGE: 4	Ŀ
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[9,14]

0,360

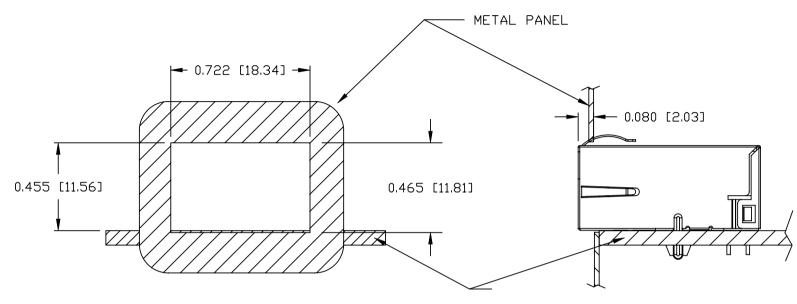
[6,60]

0,260

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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 GDDDS 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 gigabit M
CHEN BILL	12-09-10	(Extended Temp
DRAWN BY	DATE	50uinch gold I 8AI -1X1
NIXAIL NAIX	12-09-10	PATE
DC002(2)051509		

TITLE	
gigabit MagJack®	'
(Extended Temperature	and
50uinch gold plating	)
L8AL-1X1T-32A	
PATENTED	

L8AL-1X1T32A	PART NO. / DRAWING NO.		STANDARD DIM.		[ ] METRIC DIM. AS REFERENCE			
SCALE: N/A SIZE: A4		L8AL-1X1T32A	TOL. IN INCH		UNIT : INCH [mm]	REV. : A		
.XX		FILE NAME			SCALE: N/A	SIZE : A4		
1   80  -1117320   0   0   0   0   0   0   0   0   0	ı		.XX		<del></del>	'		
LOHE TATTSEH_H.DWG .XXX #0,004 \		L8AL-1X1T32A_A.DWG	.XXX	±0.004		PAGE: 5		



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