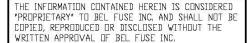
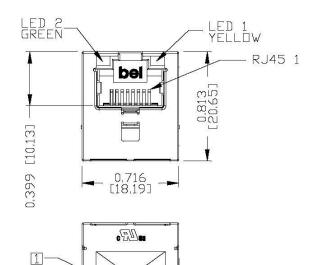
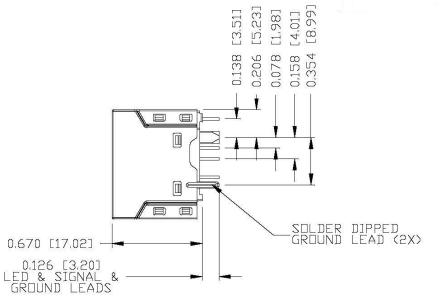
THE INFORMATION CONTAINED HEREIN IS CONSIDERED LED2 POLARITY RoHS LED1 POLARITY "PROPRIETARY" TO BEL FUSE INC, AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE PIN 17 PIN 18 COLOR PIN 19 PIN 20 COLOR WRITTEN APPROVAL OF BEL FUSE INC YELLOW GREEN SCHEMATIC LED1 ELECTRICAL CHARACTERISTICS @ 25°C 17 . PIN RJ45 TURNS RATIO TP1 TP2 1CT : 1CT ±2% YELLOW 1CT + 1CT +2% TP3 1CT : 1CT ±2% 18 • TP4 1CT : 1CT ±2% 1CT : 1CT DCL @ 100kHz/100mVRMS TRD1+ 11 • 1 TRP1+ FOR CHANNEL 1, CHANNEL 2 TRCT1 12 • 8mA DC BIAS 350µH MIN.  $\leq$ 19mA DC BIAS 120µH MIN. TRD1-TRP1-10 •-FOR CHANNEL 3, CHANNEL 4 1CT + 1CT 8mA DC BIAS 350µH MIN. TRP2+ TRD2+ 4 3 Z INS, LOSS TRCT2 6 0,1MHz TO 1MHz -1,1 dB MAX  $\leq$ 1MHz TO 65MHz -0.8 dB MAX TRD2-5 TRP2-6 65MHz TO 100MHz -1.0 dB MAX 1CT : 1CT 100MHz TO 125MHz -1,2 dB MAX TRD3+ 3 • 4 TRP3+ RET, LOSS (MIN) TRCT3 1 0,5MHz-40MHz -18 dB  $\neg \neg$ 40MHz-100MHz -12+20L0G(f/80MHz) dB TRD3-5 TRP3-2 CM TO CM REJ 1CT : 1CT 100kHz - 100MHz -30 dB MIN TRD4+ TRP4+ 8 CM TO DM REJ 100kHz - 100MHz -35 dB MIN TRCT4 7 • 7 HIPOT (Isolation Voltage): 2250 VDC TRD4-9 • 8 TRP4-100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802,3 ISOLATION REQUIREMENTS, VC12 13 • VC36 14 4X 22nF VF (FORWARD VOLTAGE) IF=20mA YELLOW 2,1V TYP, 15 16 VC45 100V AD (DOMINANT WAVELENGTH) IF = 20mA YELLOW 590nm TYP. VC78 4X 75 □HMS LED 2 VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP. 19 • AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP 1000pF 2kV GREEN BALANCED DC LINE CURRENT 600mA MAX CONTINUOUS 1.2A MAX. FOR 200 MILLISECONDS SHIELD 7777 20 I FD2 OPERATING TEMPERATURE: -40°C TD 85°C REV. : PC PAGE: 2 ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM [ ] METRIC DIM. CHOW WANCHUNG AS REF. TOL. IN INCH gigabit MagJack® V8BR-1AX1-GH DATE 2020-08-07 UNIT : INCH [mm] Vertical, 4PPoE SOLUTIONS DRAWN BY FILE NAME SCALE : N/A XIE YIMING PATENTED XX. a bel group V8BR-1AX1-GH PC.DWG DATE 2020-08-07 SIZE: A4 XXX. DC002(2)120214 This document is electronically generated. This is a controlled copy if used internally



## MECHANICAL SPECIFICATION







NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT, BLACK

FLAMMABILITY RATING UL 94V-0

CONTACT PLATING: 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,

STAINLESS STEEL

VALL COULND LEADS ADE SOLDED

JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS

- 1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND PATENTED.
- 2. THE PRODUCT IS ROHS COMPLIANT.

calus ul recognized - file #E196366 AND E169987.

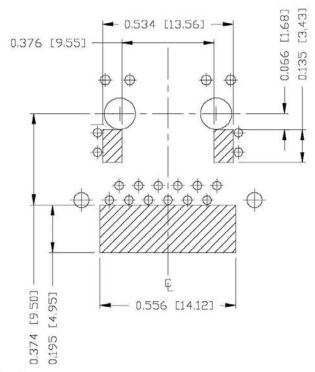
- 3. THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S. PAT 6,840,817 & U.S. PAT, 7,123,117.
- 4. THE PART IS RECOMMENDED FOR WAVE SOLDERING.
  THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS
  260°C MAX. AND 10 SECONDS MAX.

(ALL GROUND LEADS ARE SULDER DIPPED)						REV. :	PC :	PAGE:	3
ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STANDA	ARD DIM.	[ ] METRIC DIM.				
LI QUANKUN	gigabit MagJack®	V8BR-1AX1-GH	TOL. I	IN INCH	AS REF.	4	6		
DATE 2020-08-07	\$100 CONTRACT	V OBIN THAT CIT	v		UNIT : INCH [mm]			MAC	INETIC UTIONS
DRAWN BY	Vertical, 4PPoE	FILE NAME	.Д	/		750-457		SOL	UTIONS
DLIVER ZHANG	PATENTED	V8BR-1AX1-GH_PC,DWG	.XX	/	SCALE : N/A	1	a bel group		
DATE 2020-08-07		A 9 DK - 14 VI - GH - LC'D M G	.xxx	±0,010	SIZE : A4		ā		

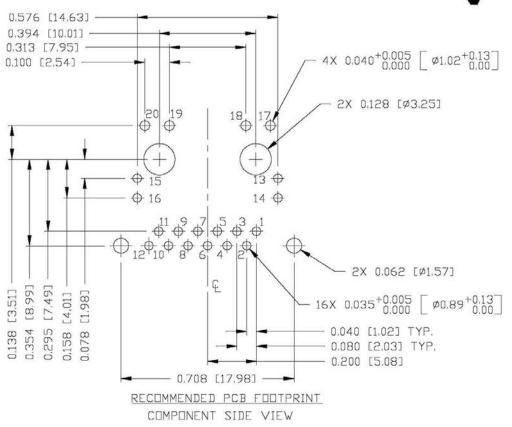
METAL SHIELD

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.



ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM [ ] METRIC DIM. LI QUANKUN TOL. IN INCH AS REF. gigabit MagJack® V8BR-1AX1-GH DATE 2020-08-07 UNIT : INCH [mm] DRAWN BY Vertical, 4PPoE FILE NAME SCALE : N/A DLIVER ZHANG XX. PATENTED V8BR-1AX1-GH\_PC.DW DATE 2020-08-07 ±0.004 SIZE : A4

REV. : PC PAGE : 4

PAGE : 4

MAGNETIC SOLUTIONS

a bel group

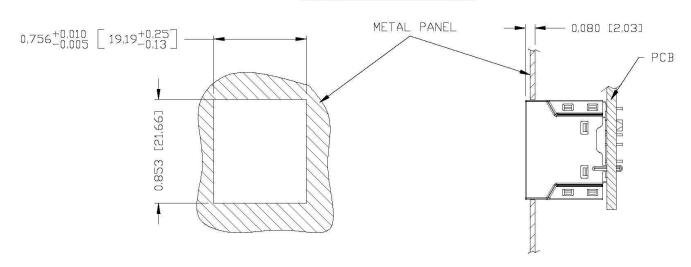
DC002(2)120214

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



NOTES:

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, PACKING INFORMATION

PACKING TRAY : 0200M9999-T1(TOP)

0200M9999-TO(BOTTOM)

PACKING QUANTITY : 50 PCS FINISHED GOODS PER TRAY

9 TRAYS (450 PCS FINISHED GOODS) PER CARTON BOX

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

						REV. :	PC	PAGE:	5
ORIGINATED BY LI QUANKUN	TITLE  gigabit MagJack®	PART NO. / DRAWING NO.  V8BR-1AX1-GH  FILE NAME  V8BR-1AX1-GH_PC.DWG	STANDARD DIM. [TOL. IN INCH		PH THE WORLDSHIP COMMON CONTRACTOR	1	h		
DATE 2020-08-07  DRAWN BY  OLIVER ZHANG	Vertical, 4PPoE PATENTED		.X	UNIT : INCH [mm] SCALE : N/A		a bei group			
DATE 2020-08-07	FAIENIED		.xxx	±0,005	SIZE : A4	d bei glou		Ř	

DC002(2)120214

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

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bel:

V8BR-1AX1-GH