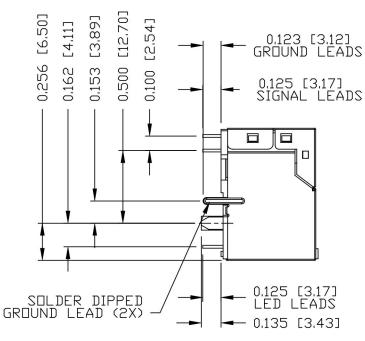
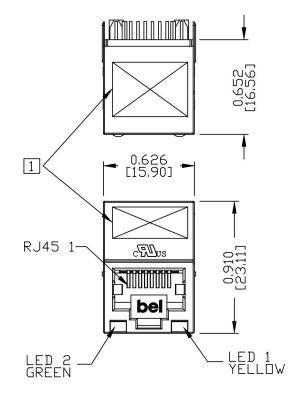
THE INFORMATION CONTAINED HEREIN IS CONSIDERED LED1 POLARITY LED2 POLARITY RoHS 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE **PIN 14** PIN 13 COLOR PIN 12 | PIN 11 COLOR WRITTEN APPROVAL OF BEL FUSE INC. **GREEN** YELLOW LED 1 SCHEMATIC 14 • ELECTRICAL CHARACTERISTICS @ 25°C TURNS RATIO YELLOW RJ45 TP1 1CT : 1CT ±3% TP2 1CT : 1CT ±3% 13 • 1CT : 1CT TP3 1CT : 1CT ±3% 1 TRP1+ TRD1+ 5 TP4 1CT : 1CT ±3% DCL @ 100kHz/100mVRMS 8mA DC BIAS 350 uH MIN. TRD1- 9 • 2 TRP1-INS. LOSS 1CT : 1CT 3 TRP2+ TRD2+ 4 1MHz T□ 100MHz -1.1 dB MAX RET, LOSS (MIN) @ 100 OHMS +/-15% TRP2-1MHz-40MHz -18 dB TRD2- 8 • 40MHz-100MHz  $-12+20L\Box G(F/80MHz) dB$ 1CT : 1CT 4 TRP3+ TRD3+ 3 ← CM TO CM REJ 1MHz - 100MHz -20 dB MIN TRP3-TRD3- 7 •-CROSSTALK (TX - RX) 1CT : 1CT 7 TRP4+ TRD4+ 2 ← 1MHz - 30MHz -40 dB MIN 30MHz - 60MHz-30 dB MIN 1500 Vrms HIPOT (Isolation Voltage): TRP4-TRD4- 6 ← 100% OF PRODUCTION TESTED TO COMPLY WITH TRDCT1/2/3/4 1 • IEEE 802.3 ISOLATION REQUIREMENTS. 0.1uF 1000pF 2kV GND 10 ← LED 1 IF=20mA YELLOW 2.1V TYP. VF (FORWARD VOLTAGE) LED 2 人D (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP. LED 2 GREEN VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP. SHIELD 7777 AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP. 11 € PAGE: REV. : ORIGINATED BY PART NO. / DRAWING NO. TITLE STANDARD DIM. [ ] METRIC DIM. CHOW WANCHUNG AS REF. TOL. IN INCH V890-1AX1-A1 gigabit MagJack® DATE 2015-07-16 UNIT : INCH [mm] (8 core, Vertical) SOLUTIONS FILE NAME DRAWN BY SCALE: N/A MURPHY LEE XX. PATENTED a bel group V890-1AX1-A1 E.DWG **DATE** 2015-07-16 -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 PBT.

FLAMMABILITY RATING UL 94V-0

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

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

METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.

(ALL GROUND LEADS ARE SOLDER DIPPED)

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.

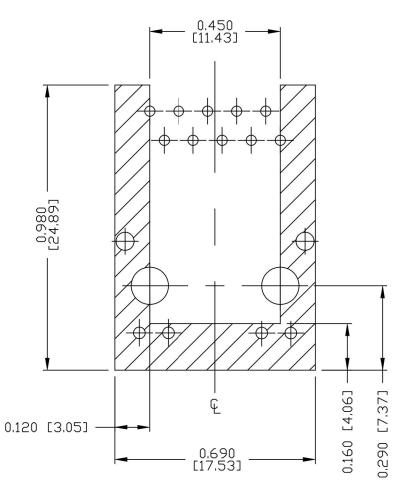
- c Nus ul recognized file #e196366 and e169987.
- 3. THE PRODUCT IS PATENT PRODUCT, THE PATENT NUMBER ARE U.S. PAT. 5,736,910 AND U.S. PAT. 6,840,817.

	i .						_ F
		TITLE PART NO. / DRAWING NO			STANDARD DIM. [ ] METRIC		
	ANTON LIAO	gigabit MagJack®	V890-1AX1-A1	TOL. 1	OL. IN INCH AS REF.		
	<b>DATE</b> 2015-07-16			v		UNIT : INCH [mm]	
	DRAWN BY	(8 core, Vertical)	FILE NAME		/	SCALE : N/A	
		PATENTED	V890-14X1-41 F DWG	.XX			
	22		VOJO INNI HILEDWO	.XXX			L
DATE	LIU DONGJUN  DATE 2015-07-16	PATENTED	V890-1AX1-A1_E.DWG		±0.010	⊕ - size :	



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

	TITLE	PART NO. / DRAWING NO.	STAND	ARD DIM.	[ ] METRIC DIM.
ANTON LIAO DATE 2015-07-16	gigabit MagJack®	V890-1AX1-A1	TOL.	IN INCH	AS REF.
22	(8 core, Vertical)	EILE NAME	.x		UNIT : INCH [mm]
DRAWN BY Liu Dongjun	PATENTED	FILE NAME	.XX		SCALE : N/A
<b>DATE</b> 2015-07-16	I HILIVILD	V890-1AX1-A1_E.DWG	.XXX	±0.004	SIZE : A4

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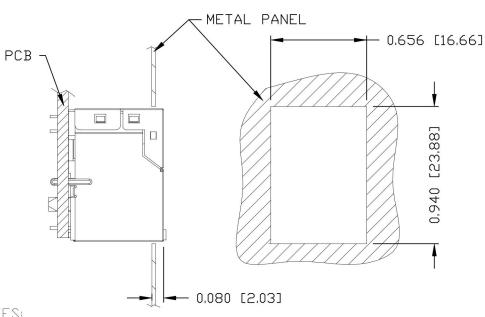
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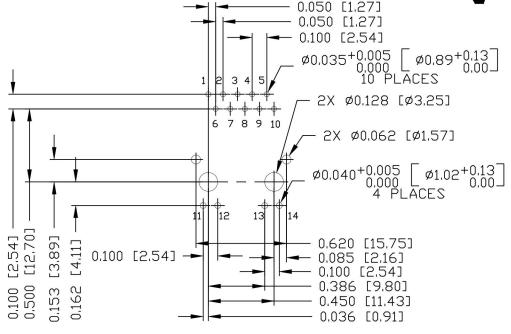
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## RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW









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 : 0200-9999-I3(TOP)

0200-9999-I4(BUTTUM)

PACKING QUANTITY: 55 PCS FINISHED GOODS PER TRAY

9 TRAYS (495 PCS FINISHED GOODS)

PER CARTON BOX

NOTER: CARDBOARDS ARE PLACED BETWEEN LAYERS

OF PACKIING TRAY INSIDE CARTON BOX

(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	· STANDARD DIM.		[ ] METRIC DIM.	
ANTON LIAO DATE 2015-07-16	gigabit MagJack®	V890-1AX1-A1		IN INCH	AS REF.	
DRAWN BY	(8 core, Vertical)	FILE NAME	.X		UNIT : INCH [mm]	
LIU DONGJUN	PATENTED		.XX		SCALE : N/A	
<b>DATE</b> 2015-07-16		V890-1AX1-A1_E.DWG	.XXX	±0.004	⊕ - SIZE : A4	

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