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LED1 POLARITY			LED2 POLARITY		
PIN 14	PIN 13	COLOR	PIN 12	PIN 11	COLOR
-	+	YELLOW	-	+	GREEN

RoHS



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TP1	1CT : 1CT ±3%
TP2	1CT : 1CT ±3%
TP3	1CT : 1CT ±3%
TP4	1CT : 1CT ±3%

CL @ 100kHz/100mVRMS

8mA DC BIAS	350µH MIN.
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INS. LOSS

1MHz TO 100MHz	-1.1 dB MAX
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RET. LOSS (MIN) @ 100 OHMS +/-15%

1MHz-40MHz	-18 dB
40MHz-100MHz	-12+20LOG(F/80MHz) dB

CM TO CM REJ

1MHz - 100MHz	-20 dB MIN
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CROSSTALK (TX - RX)

1MHz - 30MHz	-40 dB MIN
30MHz - 60MHz	-30 dB MIN

HIPOT (Isolation Voltage):

1500 Vrms

100% OF PRODUCTION TESTED TO COMPLY WITH
IEEE 802.3 ISOLATION REQUIREMENTS.

LED 1

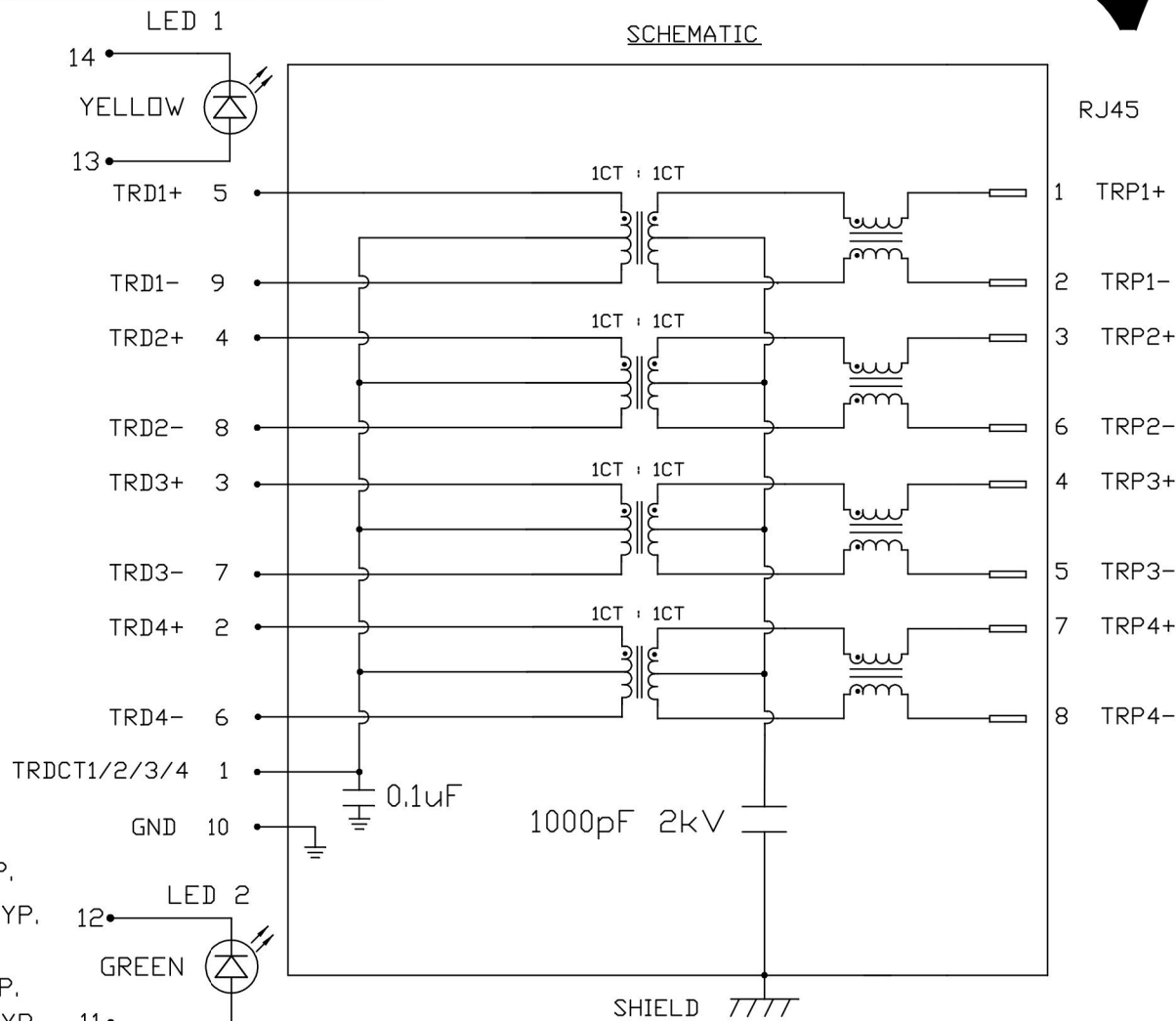
VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

LED 2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.



ORIGINATED BY
CHOW WANCHUNG
DATE 2015-07-16

TITLE

gigabit MagJack®
(8 core, Vertical)
PATENTED

DRAWN BY
MURPHY LEE
DATE 2015-07-16

PART NO. / DRAWING NO.
V890-1AX1-A1

FILE NAME
V890-1AX1-A1_E.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

REV. : E

PAGE : 2



bel MAGNETIC SOLUTIONS
a bel group

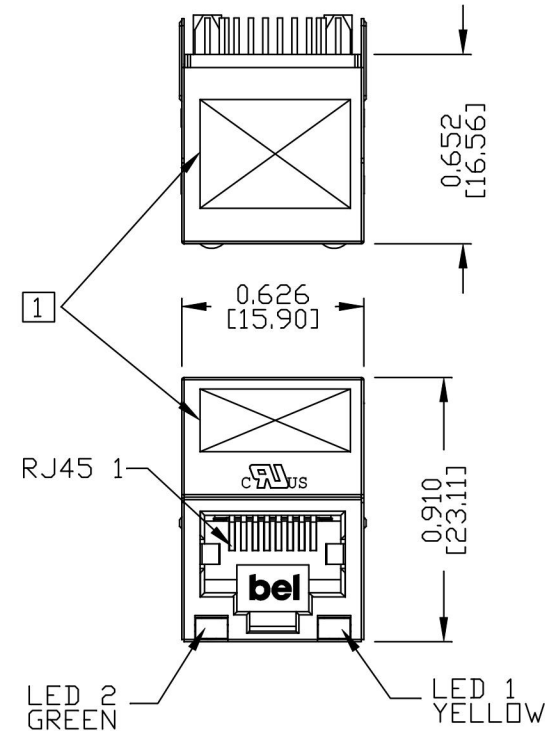
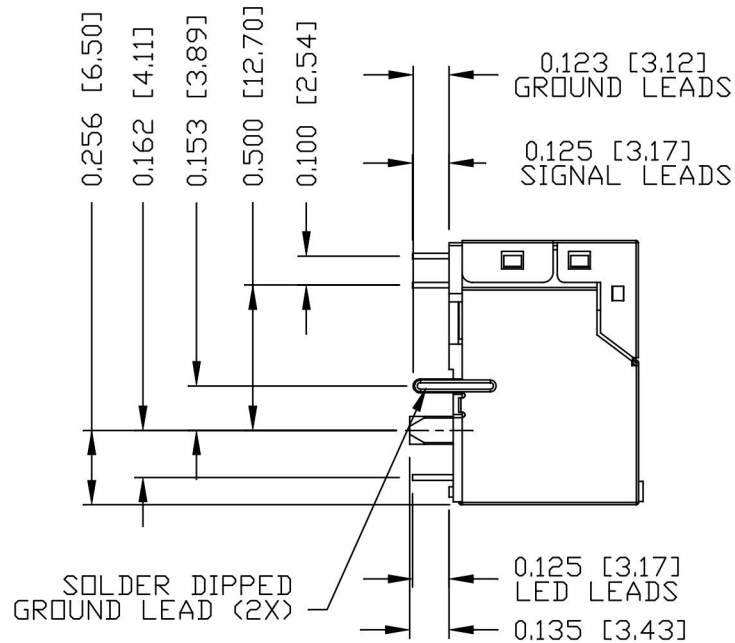
Additional Resources: [Product Page](#) [3D Model](#) [PCB Footprint](#) [Technical Documentation](#)

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MECHANICAL SPECIFICATION

RoHS

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NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PBT.
FLAMMABILITY RATING UL 94V-0
- CONTACTS: 30 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.
- OUTPUT 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.

- cULus 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.

ORIGINATED BY ANTON LIAO DATE 2015-07-16	TITLE gigabit MagJack® (8 core, Vertical) PATENTED	PART NO. / DRAWING NO. V890-1AX1-A1	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.	REV. : E PAGE : 3  bel MAGNETIC SOLUTIONS a bel group
DRAWN BY LIU DONGJUN DATE 2015-07-16		FILE NAME V890-1AX1-A1_E.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A SIZE : A4	
			±0.010		

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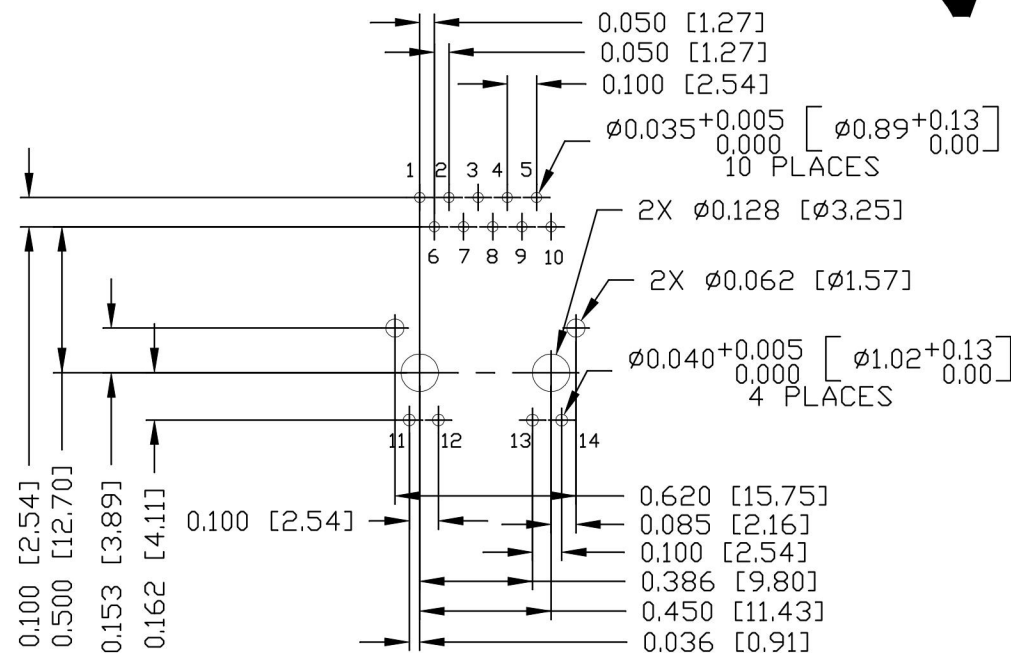
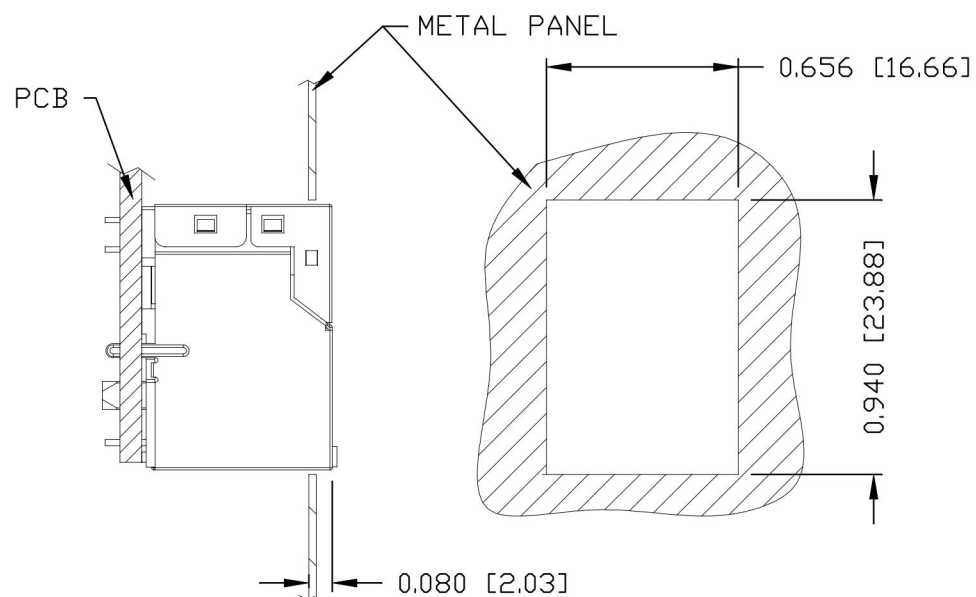
RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE VIEW

RoHS



Additional Resources: [Product Page](#) [3D Model](#) [PCB Footprint](#) [Technical Documentation](#)

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 : 0200-9999-I3(TOP)

0200-9999-I4(BOTTOM)

PACKING QUANTITY : 55 PCS FINISHED GOODS PER TRAY
9 TRAYS (495 PCS FINISHED GOODS)
PER CARTON BOX

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

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