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LED1 POLARITY			LED2 POLARITY		
PIN 17	PIN 18	COLOR	PIN 19	PIN 20	COLOR
-	+	YELLOW	-	+	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%

DCL @ 100kHz/100mVRMS

FOR CHANNEL 1, CHANNEL 2

8mA DC BIAS 350μH MIN.

19mA DC BIAS 120μH MIN.

FOR CHANNEL 3, CHANNEL 4

8mA DC BIAS 350μH MIN.

INS. LOSS

0.1MHz TO 1MHz -1.1 dB MAX

1MHz TO 65MHz -0.8 dB MAX

65MHz TO 100MHz -1.0 dB MAX

100MHz TO 125MHz -1.2 dB MAX

RET. LOSS (MIN)

0.5MHz-40MHz -18 dB

40MHz-100MHz -12+20LOG(f/80MHz) dB

CM TO CM REJ

100kHz - 100MHz -30 dB MIN

CM TO DM REJ

100kHz - 100MHz -35 dB MIN

HIPOT (Isolation Voltage): 2250 VDC

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.

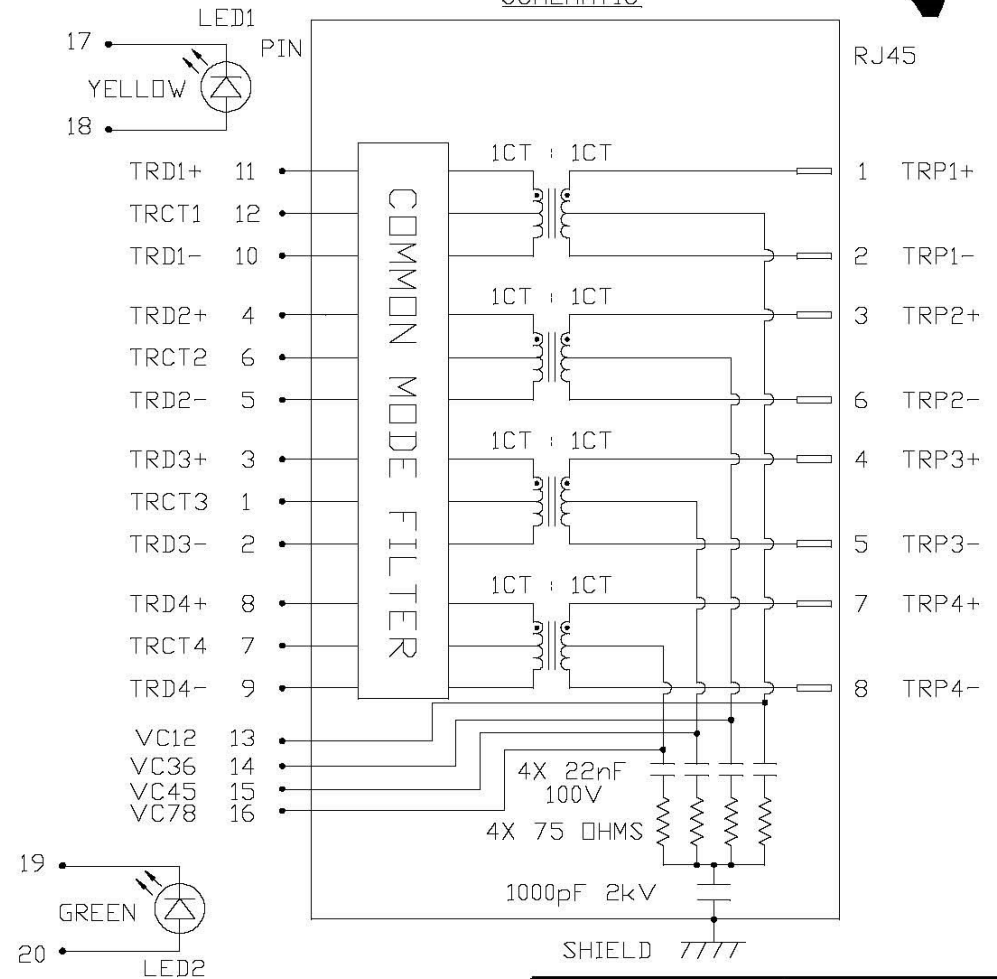
λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

BALANCED DC LINE CURRENT 600mA MAX CONTINUOUS

1.2A MAX. FOR 200 MILLISECONDS

OPERATING TEMPERATURE: -40°C TO 85°C

SCHEMATIC



ORIGINATED BY
CHOW WANCHUNG
DATE 2020-08-07

DRAWN BY
XIE YIMING
DATE 2020-08-07

TITLE

gigabit MagJack®
Vertical, 4PPoE
PATENTED

PART NO. / DRAWING NO.

V8BR-1AX1-GH

FILE NAME

V8BR-1AX1-GH_PC.DWG

STANDARD DIM. TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM. AS REF.

UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : PC

PAGE : 2



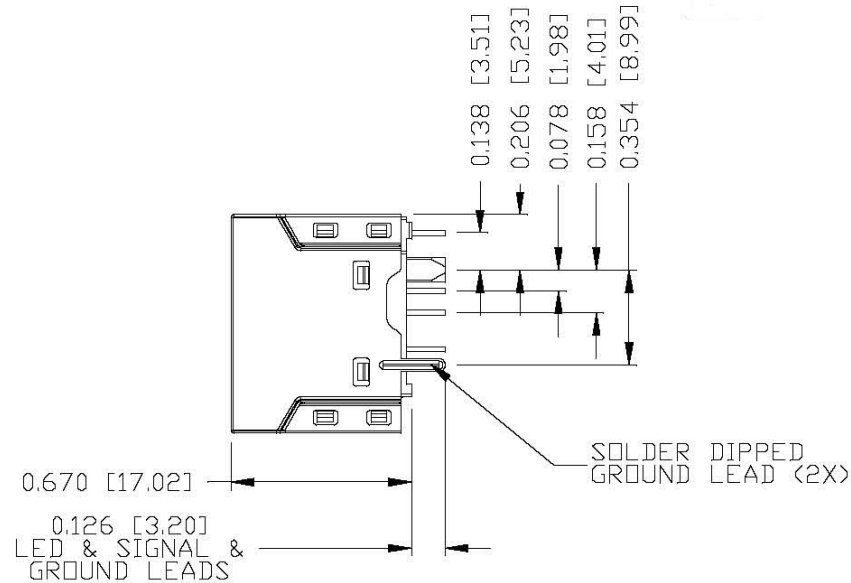
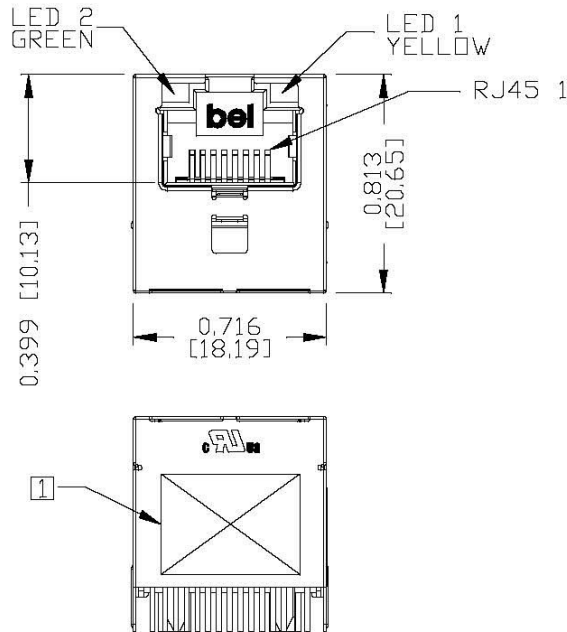
DC002(2)120214

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MECHANICAL SPECIFICATION

RoHS



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.
 METAL SHIELD: STAINLESS STEEL
 (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 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..

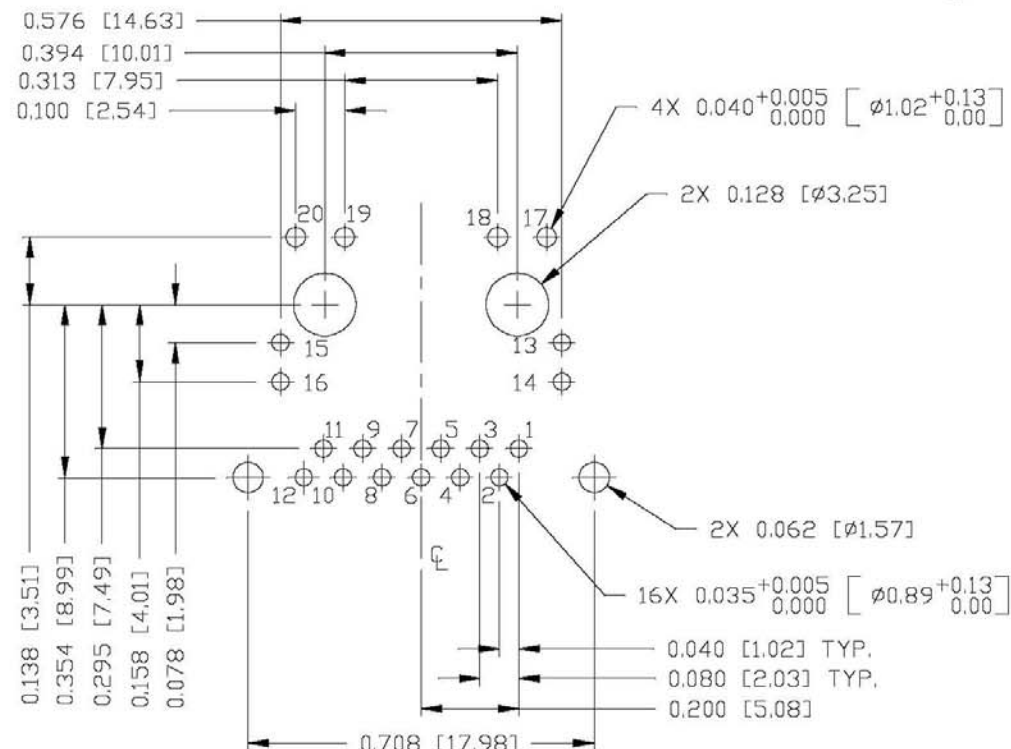
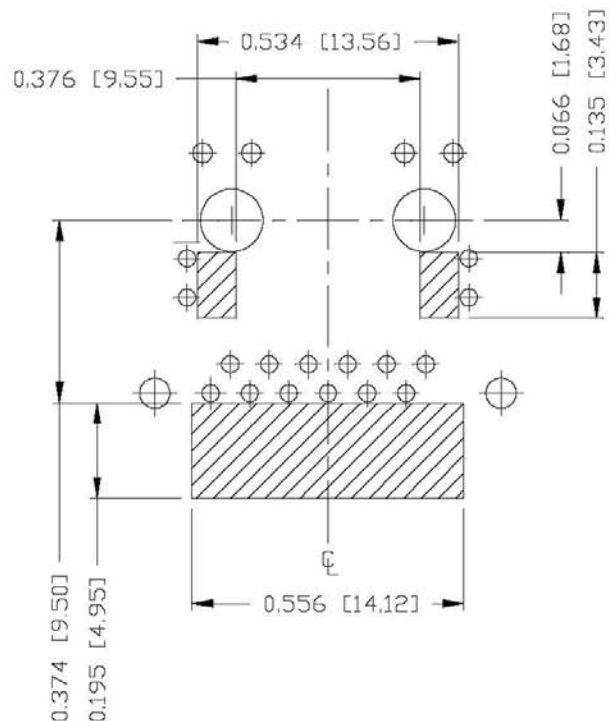
ALL GROUND LEADS ARE SOLDER DIPPED)										REV. : PC		PAGE : 3	
ORIGINATED BY LI QUANKUN DATE 2020-08-07		TITLE glgabit MagJack® Vertical, 4PPoE PATENTED		PART NO. / DRAWING NO. V8BR-1AX1-GH		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.		 bel MAGNETIC SOLUTIONS a bel group			
DRAWN BY OLIVER ZHANG DATE 2020-08-07				FILE NAME V8BR-1AX1-GH_PC.DWG		.X		UNIT : INCH [mm]					
						.XX		SCALE : N/A					
						.XXX	±0.010		SIZE : A4				

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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.

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DATE 2020-08-07
DRAWN BY
OLIVER ZHANG
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Vertical, 4PPoE
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STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.
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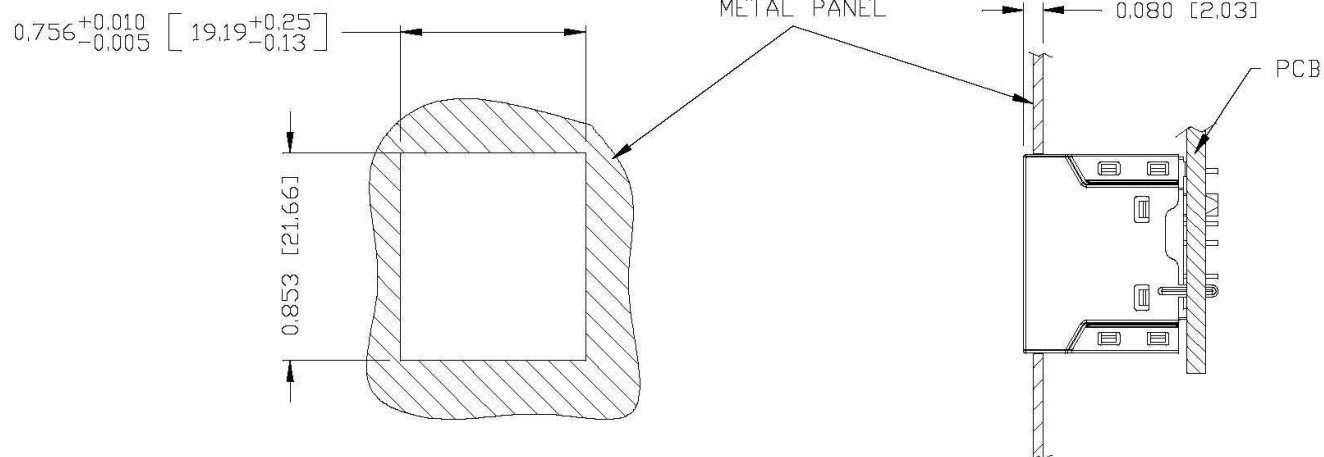
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SUGGESTED PANEL OPENING



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-T0(BOTTOM)

PACKING QUANTITY : 50 PCS FINISHED GOODS PER TRAY
9 TRAYS (450 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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