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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.
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**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
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**CM TO DM REJ**

100kHz - 100MHz	-35 dB MIN
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**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**

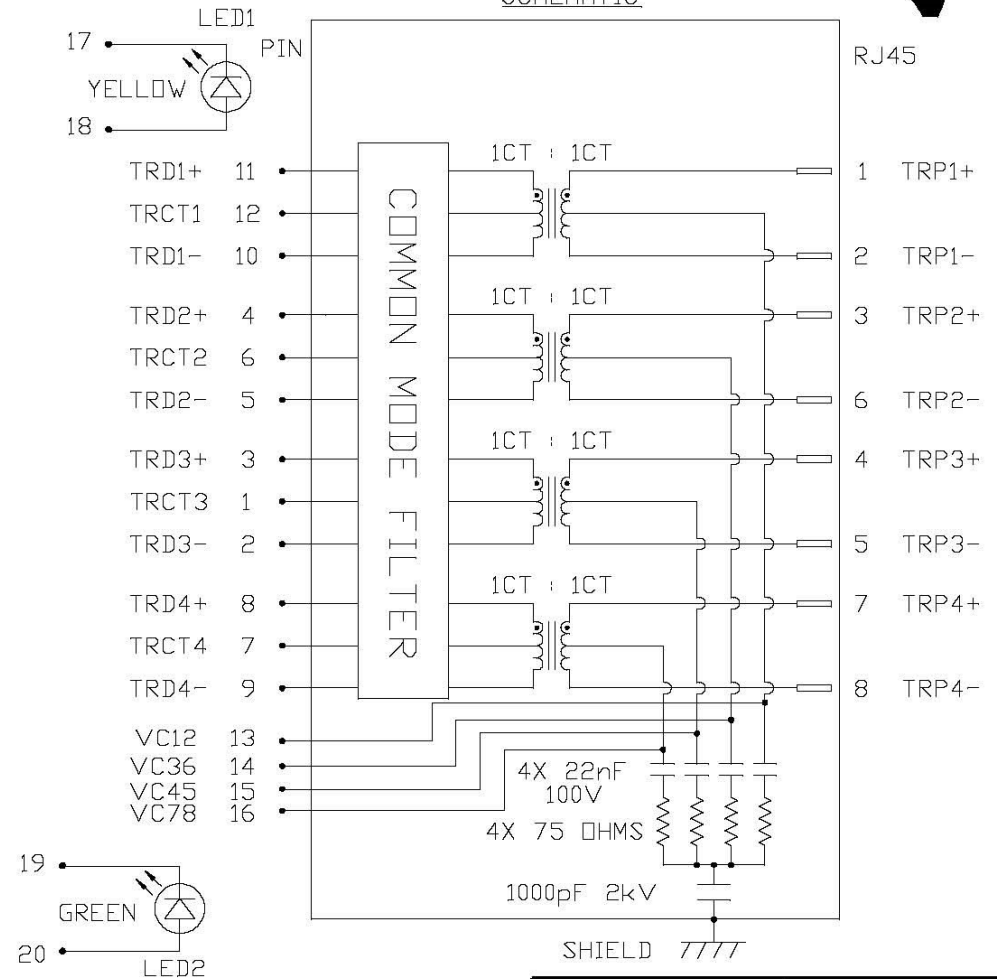
VF (FORWARD VOLTAGE) IF=20mA	GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH) IF=20mA	GREEN	570nm TYP.

**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	[ ] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	SIZE : A4

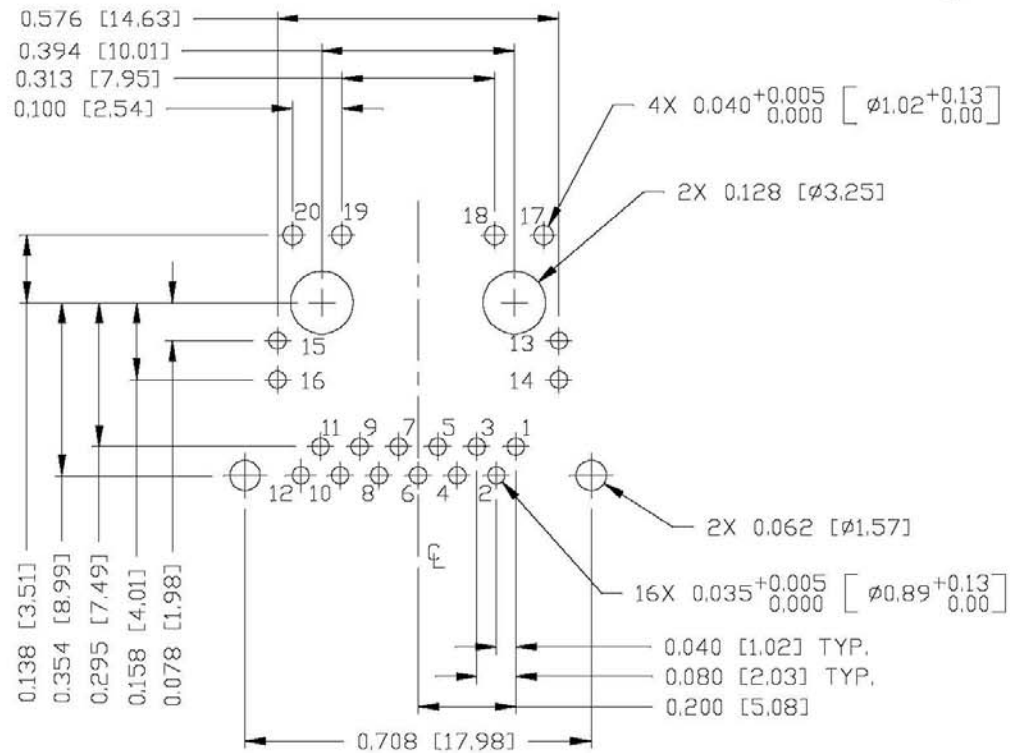
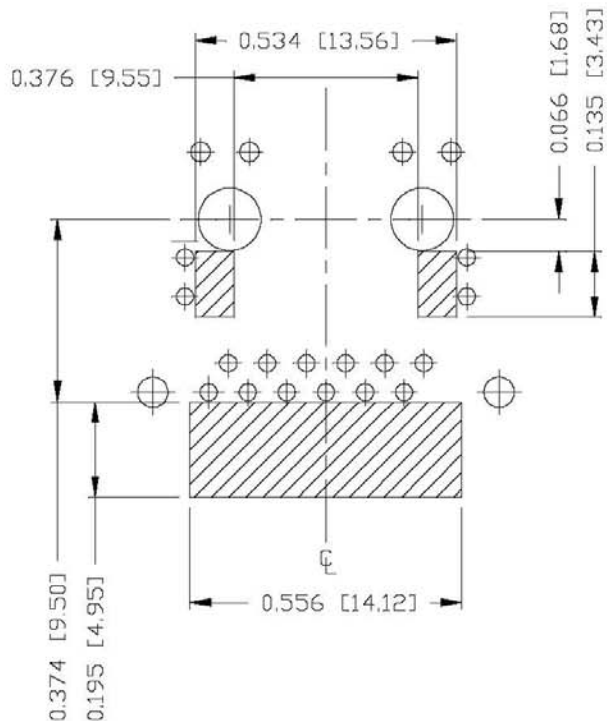
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RoHS



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.

REV. : PC      PAGE : 4

ORIGINATED BY  
LI QUANKUN  
DATE 2020-08-07

DRAWN BY  
OLIVER ZHANG  
DATE 2020-08-07

TITLE  
gigabit MagJack®  
Vertical, 4PPoE  
PATENTED

PART NO. / DRAWING NO.  
V8BR-1AX1-GH

FILE NAME  
V8BR-1AX1-GH\_PC.DWG

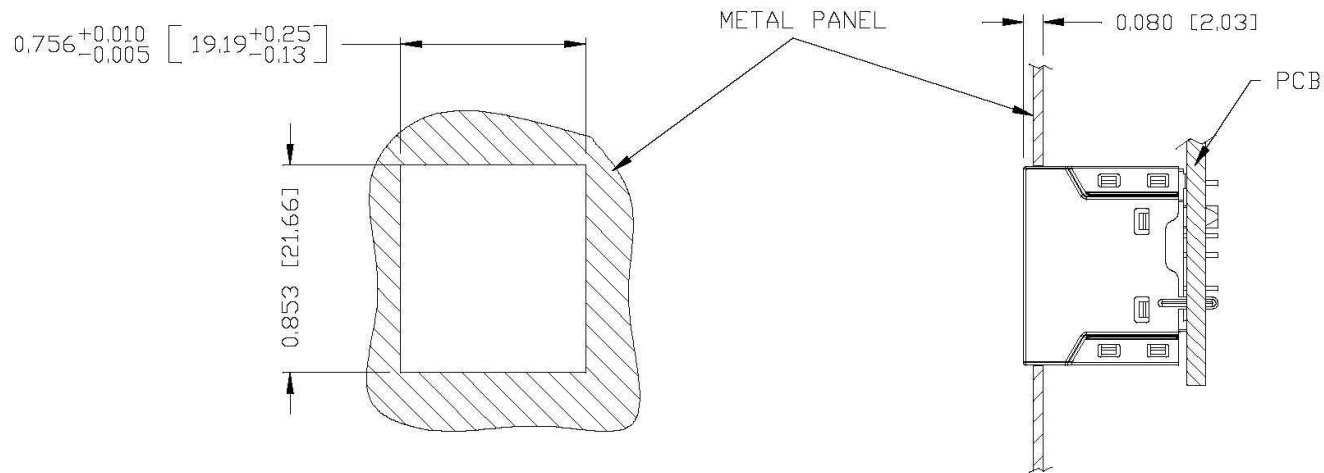
STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX ±0.004	SIZE : A4



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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

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

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ORIGINATED BY LI QUANKUN DATE 2020-08-07	TITLE glgabit MagJack® Vertical, 4PPoE PATENTED	PART NO. / DRAWING NO. V8BR-1AX1-GH	STANDARD DIM. [ ] METRIC DIM.	
			TOL. IN INCH AS REF.	
			.X	UNIT : INCH [mm]
DRAWN BY OLIVER ZHANG DATE 2020-08-07		FILE NAME V8BR-1AX1-GH_PC.DWG	.XX	SCALE : N/A
			.XXX	±0.005
			SIZE : A4	

