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

RoHS

ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

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

OCL @ 100kHz/100mVRMS

(-40°C - 85°C)	180µH MIN.
19mA DC BIAS(-40°C - 85°C)	120µH MIN.

RET. LOSS (MIN)

1MHz-40MHz	-18 dB MIN
40MHz-250MHz	-18+10LOG10(f/40MHz) dB MIN

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.

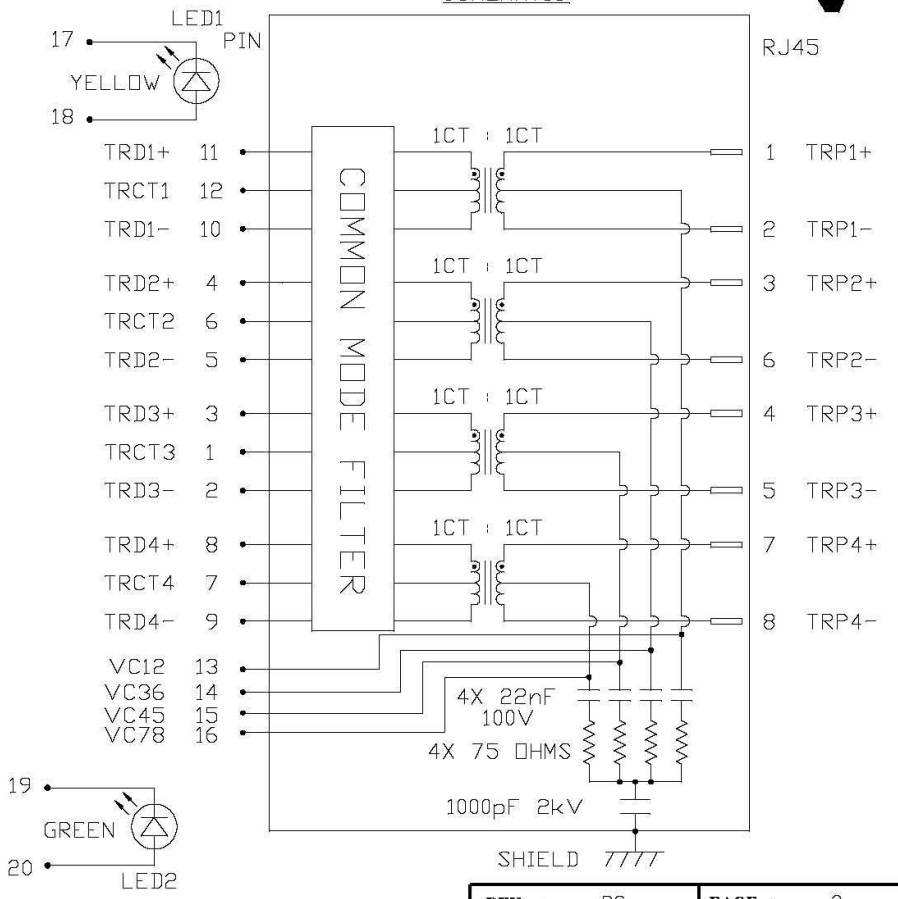
LED 2

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



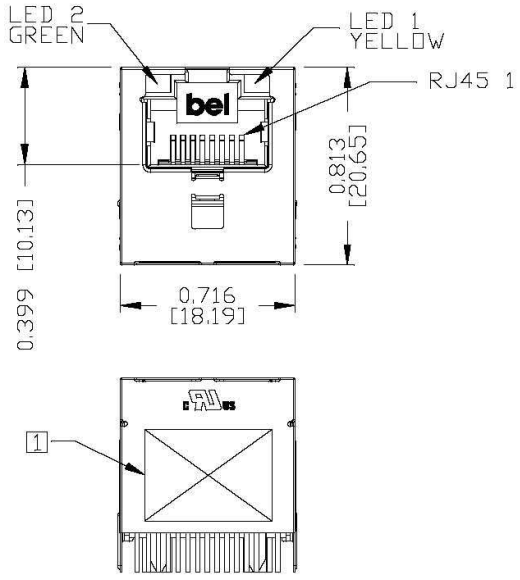
REV. : PC				PAGE : 2	
ORIGINATED BY CHOW WANCHUNG DATE 2020-08-07	TITLE 5 gigabit MagJack® Vertical, 4PPoE PATENTED	PART NO. / DRAWING NO. V8BR-1AX1-JK	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	bel MAGNETIC SOLUTIONS a bel group
DRAWN BY XIE YIMING DATE 2020-08-07		FILE NAME V8BR-1AX1-JK_PC.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A SIZE : A4	

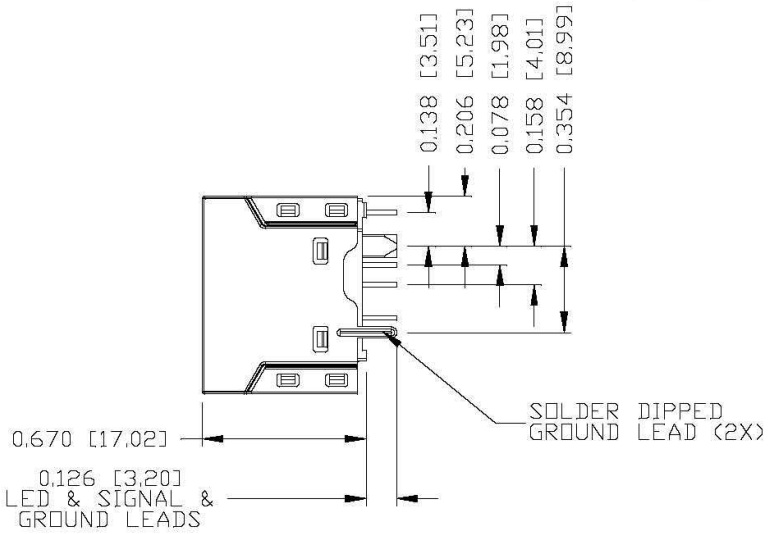
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MECHANICAL SPECIFICATION

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.

c UL us 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..

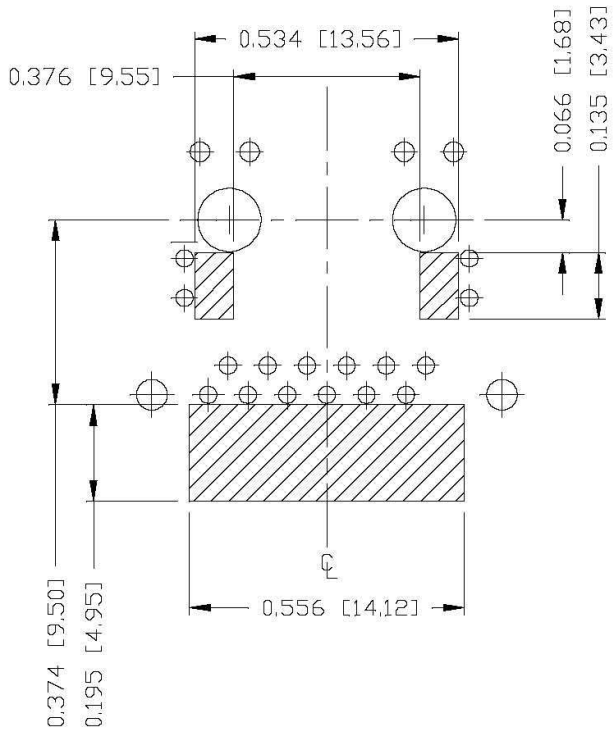
REV. : PC	PAGE : 3

ORIGINATED BY LI QUANKUN DATE 2020-08-07	TITLE 5 gigabit MagJack® Vertical, 4PPoE PATENTED	PART NO. / DRAWING NO. V8BR-1AX1-JK	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-JK_PC.DWG	.X .XX .XXX ±0.010	UNIT : INCH [mm] SCALE : N/A SIZE : A4	

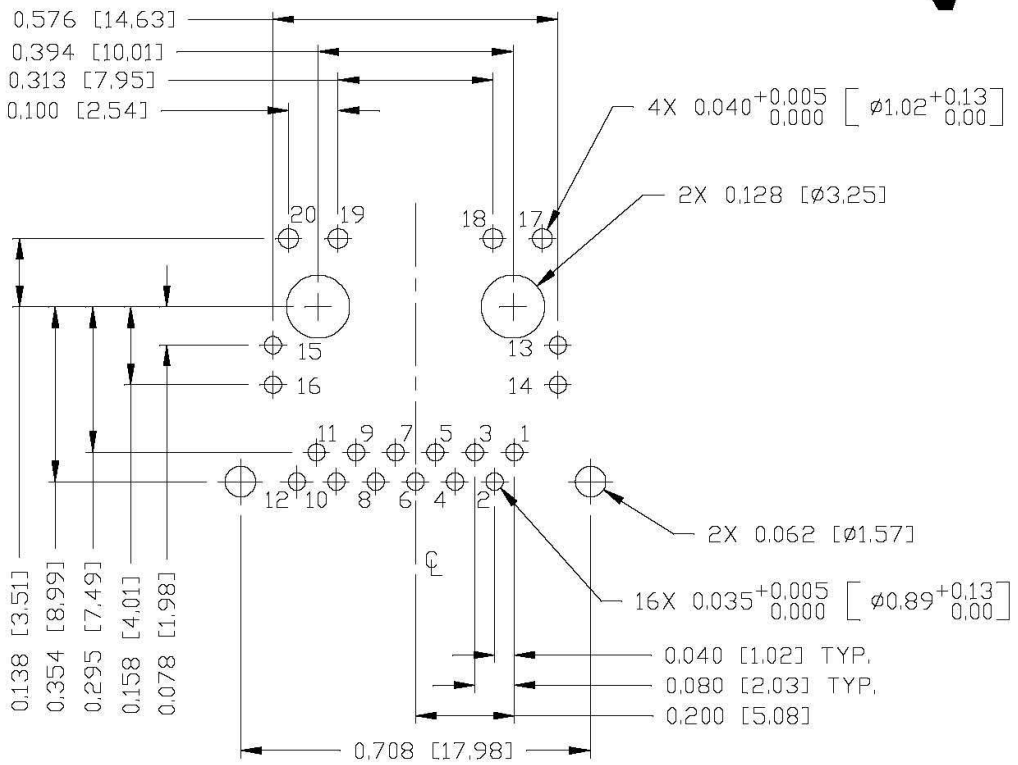
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RoHS



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



RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE VIEW

REV. : PC | PAGE : 4

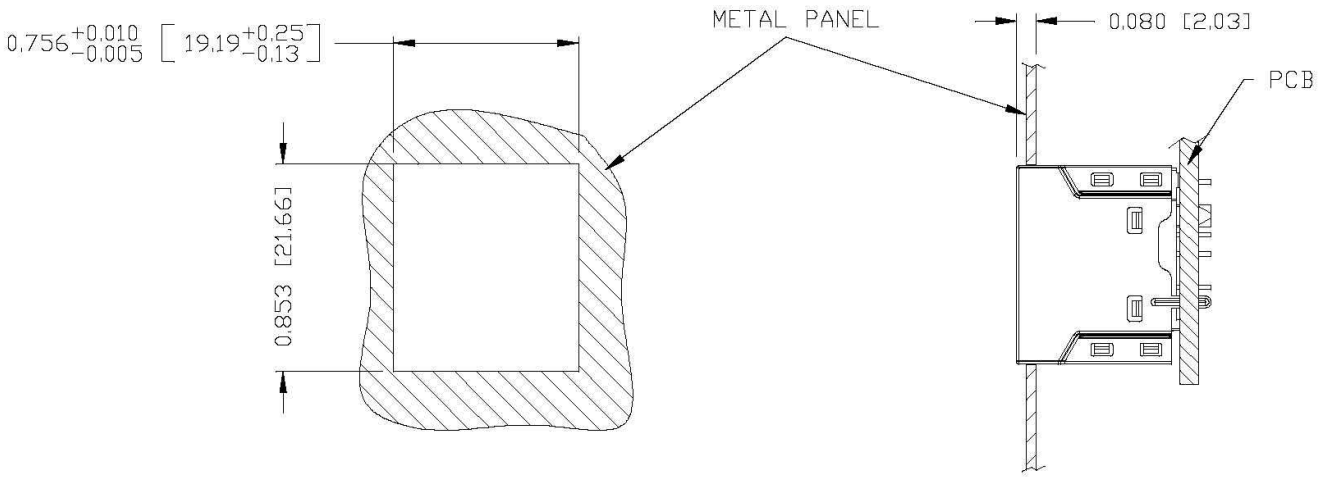
ORIGINATED BY: LI QUANKUN DATE: 2020-08-07	TITLE: 5 gigabit MagJack® Vertical, 4PPoE PATENTED	PART NO. / DRAWING NO.: V8BR-1AX1-JK	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	bel MAGNETIC SOLUTIONS a bel group
DRAWN BY: OLIVER ZHANG DATE: 2020-08-07		FILE NAME: V8BR-1AX1-JK_PC.DWG	.X .XX .XXX ±0.004	UNIT : INCH [mm] SCALE : N/A SIZE : A4	

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RoHS

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)

				REV. : PC	PAGE : 5
ORIGINATED BY LI QUANKUN DATE 2020-08-07	TITLE 5 gigabit MagJack® Vertical, 4PPoE PATENTED	PART NO. / DRAWING NO. V8BR-1AX1-JK	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.005	[ ] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4	bel MAGNETIC SOLUTIONS a bel group
DRAWN BY OLIVER ZHANG DATE 2020-08-07		FILE NAME V8BR-1AX1-JK_PC.DWG			

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Global Electronic Components Distributor

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Bel Fuse:

0ZRP0050FF1E BM-6AJPK025F CRB-HKMS 0680L9100-05 0685-2500-01 0685F1500-01 0ACG-5000-TE 0ZCJ0016FF2E LWN2660-6EG HR2320-9RG 0ZCG0030FF2C 0ABA-0250-TN 0ZRV0100FF1A 0680L9100-01 0ZRG0110FF1E SS-60300-081 0HAAL1600-02 0ZCG0014FF2C 0685F0250-01 0685T0750-01 0ZRR0005FF1E 0ZRV0008FF1E 5HT 1-R BM-1BJPK025F 0685T7000-01 3SB2-R SI 46001 F S811-1X1T-06-F 0679H9150-01 0685T4000-01