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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

URNS 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.

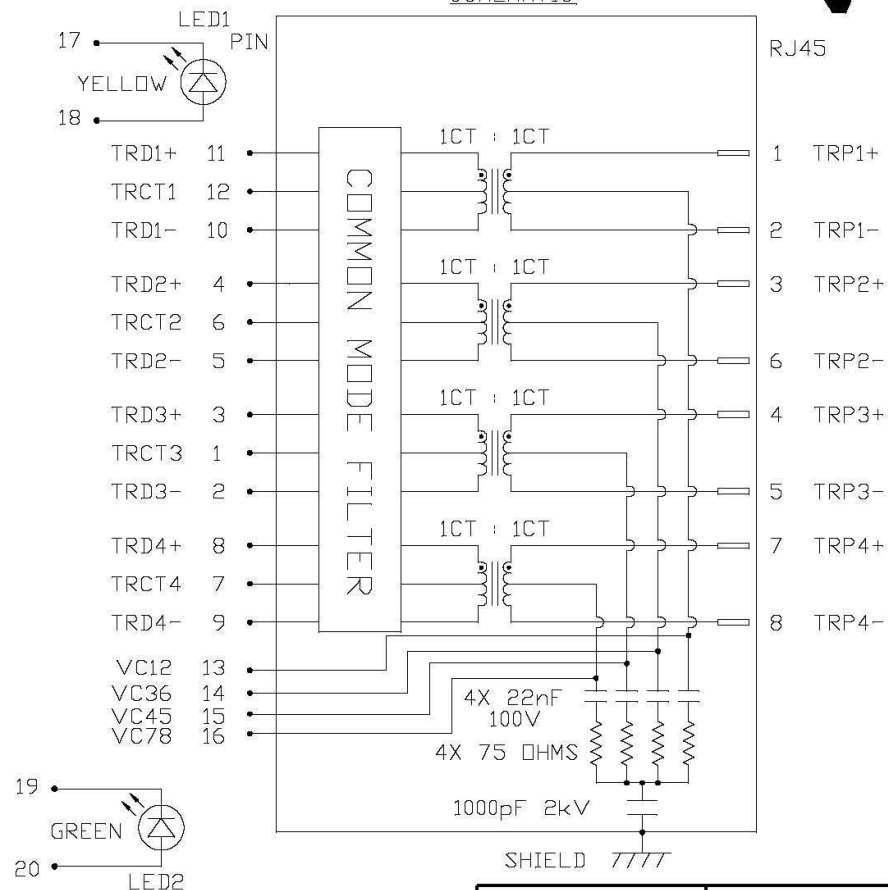
λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

BALANCED DC LINE CURRENT 600mA MAX CONTINUOUS

1.2A MAX. FOR 200 MILLISECONDS

OPERATING TEMPERATURE: -40°C TO 85°C

SCHEMATIC



ORIGINATED BY
CHOW WANCHUNG
DATE 2020-08-07

DRAWN BY
XIE YIMING
DATE 2020-08-07

TITLE

5 gigabit MagJack®
Vertical, 4PPoE
PATENTED

PART NO. / DRAWING NO.

V8BR-1AX1-JK

FILE NAME

V8BR-1AX1-JK_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



bel MAGNETIC SOLUTIONS
a bel group

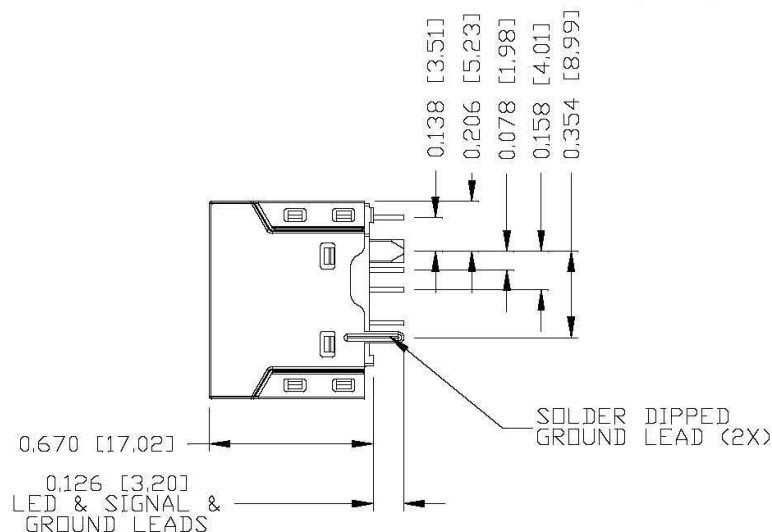
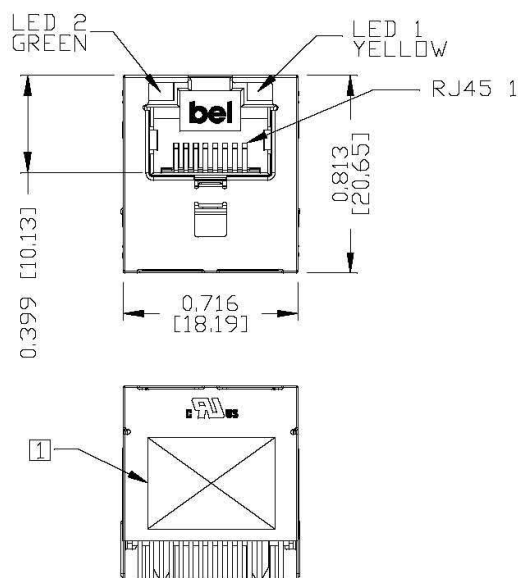
DC002(2)120214

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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.

3. 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.,

ORIGINATED BY
LI QUANKUN
DATE 2020-08-07

DRAWN BY
OLIVER ZHANG
DATE 2020-08-07

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Vertical, 4PPoE
PATENTED

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

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.XXX	SIZE : A4

REV. : PC PAGE : 3

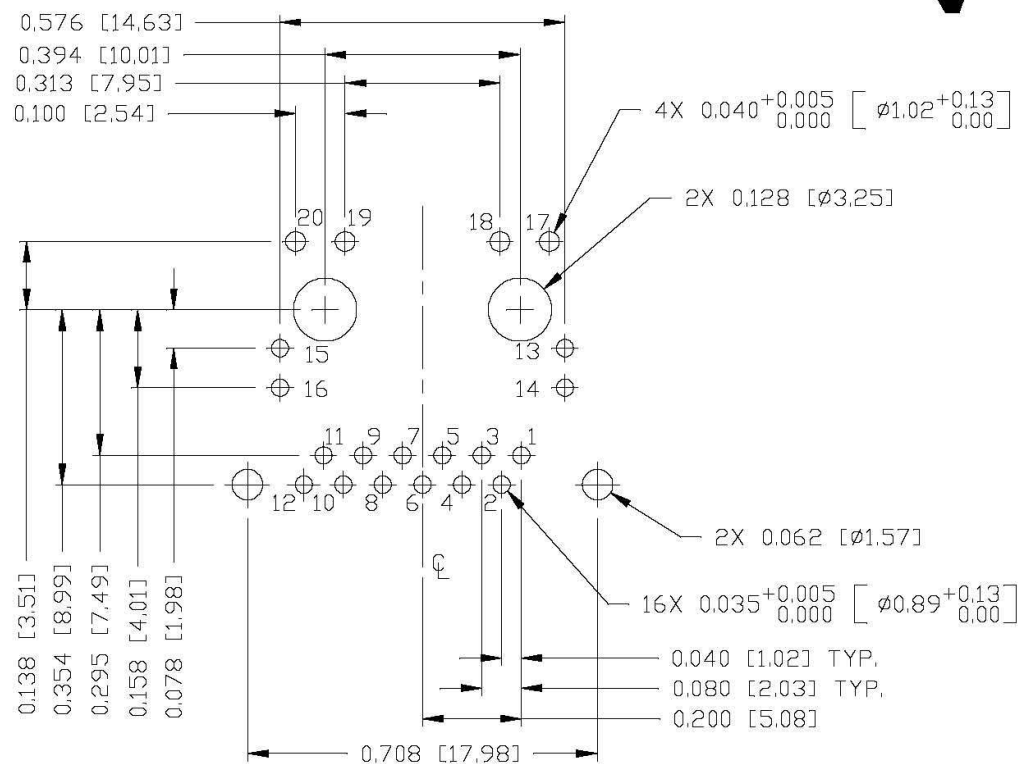
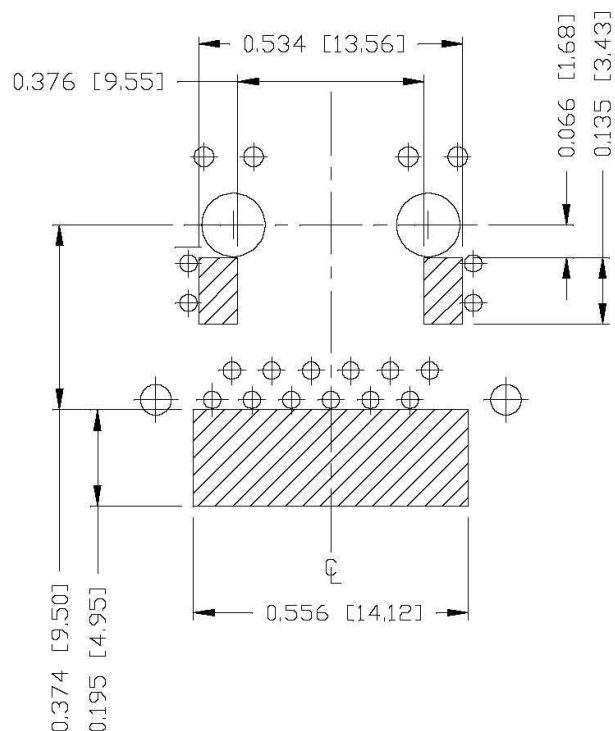


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NOTES

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

ORIGINATED BY
LI QUANKUN
DATE 2020-08-07

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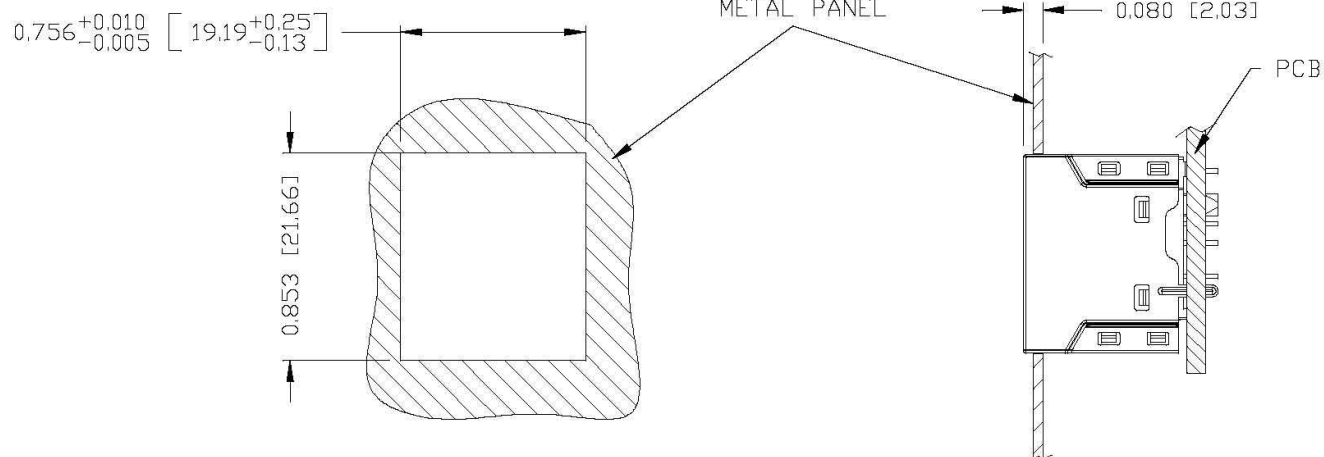
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SUGGESTED PANEL OPENING



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

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

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
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