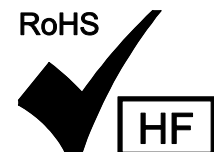


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PRELIMINARY



LED1 POLARITY			LED2 POLARITY		
PIN 13	PIN 14	COLOR	PIN 15	PIN 16	COLOR
-	+	GREEN	-	+	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX 1CT : 1  
RX 1CT : 1

QCL @ 100kHz/100mVRMS (0-70°C)  
8mA DC BIAS 350µH MIN.

INS. LOSS  
0.1MHz TO 1MHz -1.1 dB MAX  
1MHz TO 65MHz -0.5 dB MAX  
65MHz TO 100MHz -0.8 dB MAX  
100MHz TO 125MHz -1.2 dB MAX

RET. LOSS (MIN) @ 100 OHMS +/-15%  
0.5MHz-40MHz -18 dB  
40MHz-100MHz -12+20LOG(f/80MHz) dB

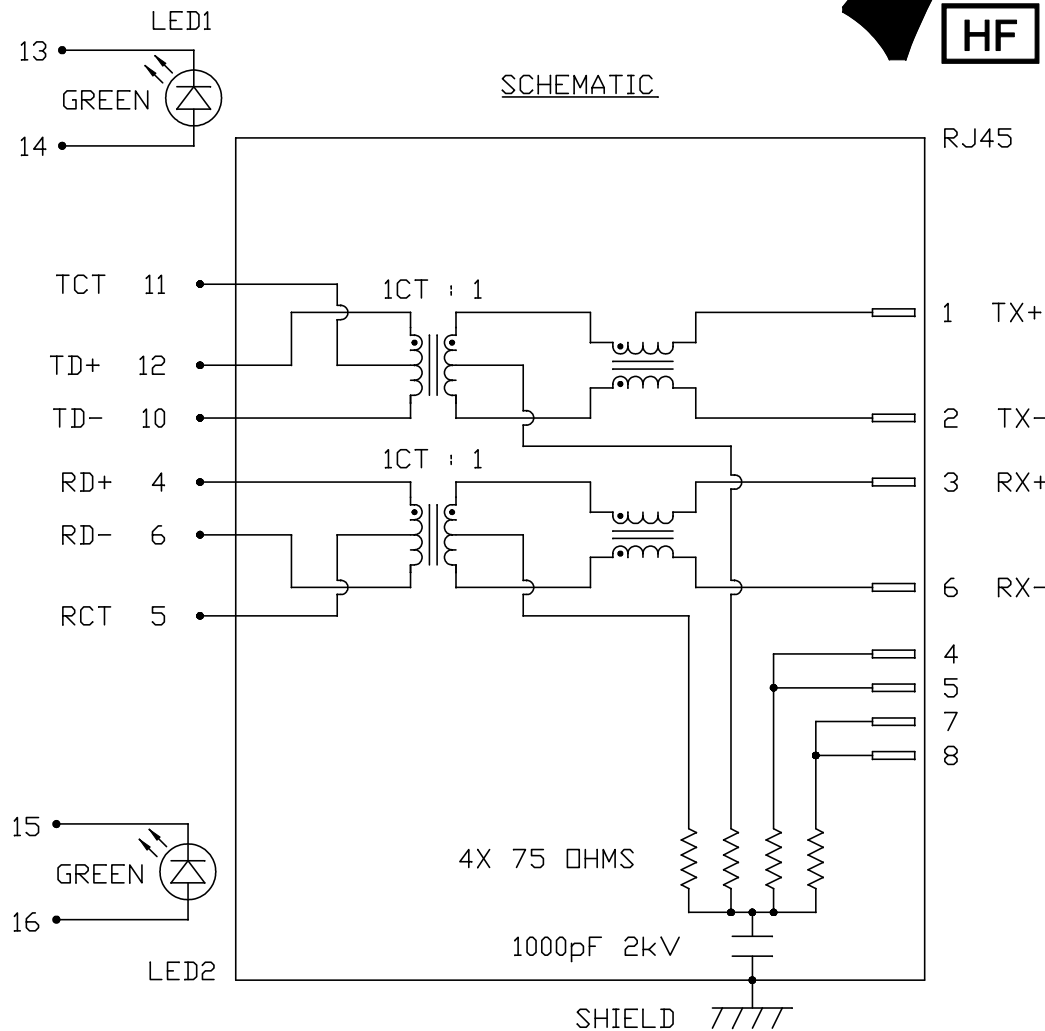
CM TO CM REJ  
100kHz - 100MHz -30 dB MIN

CM TO DM REJ  
100kHz - 100MHz -35 dB MIN

HIPOT (Isolation Voltage): 1500 Vrms  
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

LED 1 & LED 2  
VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.  
λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

OPERATING TEMPERATURE: 0°C TO +70°C.



ORIGINATED BY  
CHOW WANCHUNG  
DATE 2017-06-20  
DRAWN BY  
XIE YIMING  
DATE 2017-06-20

TITLE  
10/100 MagJack®  
(NanoJack)  
L8BE-1G1T-91A  
PATENTED

PART NO. / DRAWING NO.  
L8BE-1G1T91A  
FILE NAME  
L8BE-1G1T91A\_PA.DWG

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

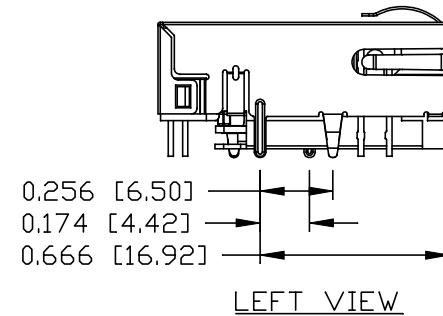
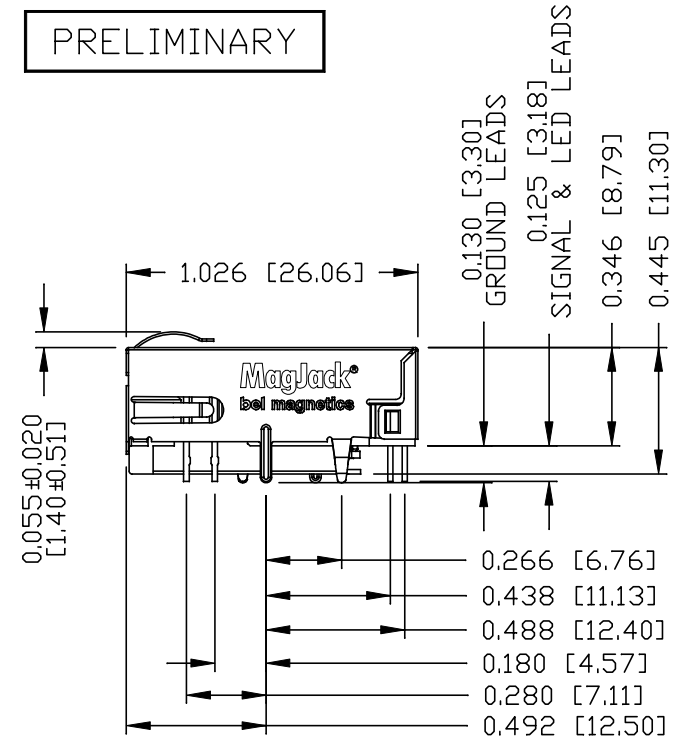
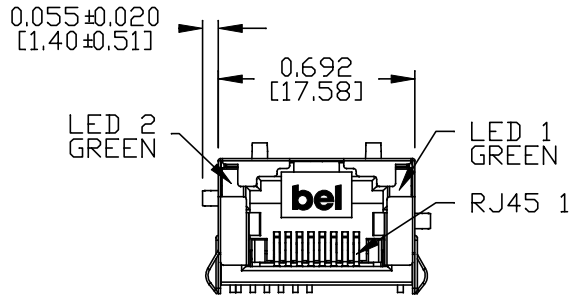
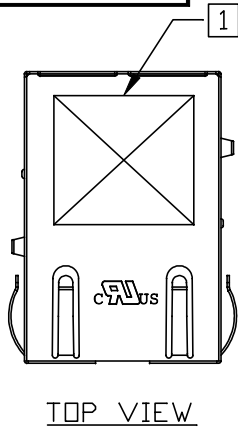
REV. : PA PAGE : 2



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MECHANICAL SPECIFICATION

PRELIMINARY



NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PA, BLACK  
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)

- MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND "PATENTED" MARKING.
- THE PRODUCT IS PATENTED. THE PATENT NUMBER IS U.S. PAT. 7,123,117.
- JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- THE PRODUCT IS RoHS COMPLIANT AND HALOGEN FREE.

UL RECOGNIZED - FILE #E196366 AND E169987.

- THE PART IS COMPLIANT WITH WAVE SOLDERING AND IR REFLOW.  
FOR WAVE SOLDERING, THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.  
FOR IR REFLOW, THE SUGGESTED PEAK IR REFLOW CONDITION IS 245°C MAX AND 30 SECONDS MAX.

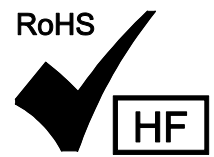
REV. : PA PAGE : 3

ORIGINATED BY ANTON LIAO DATE 2017-06-20	TITLE 10/100 MagJack® (NanoJack) L8BE-1G1T-91A PATENTED	PART NO. / DRAWING NO. L8BE-1G1T91A	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.		
		FILE NAME L8BE-1G1T91A_PA.DWG	.X	UNIT : INCH [mm]		
			.XX	SCALE : N/A		
DRAWN BY LIU DONGJUN DATE 2017-06-20			.XXX	±0.010		SIZE : A4

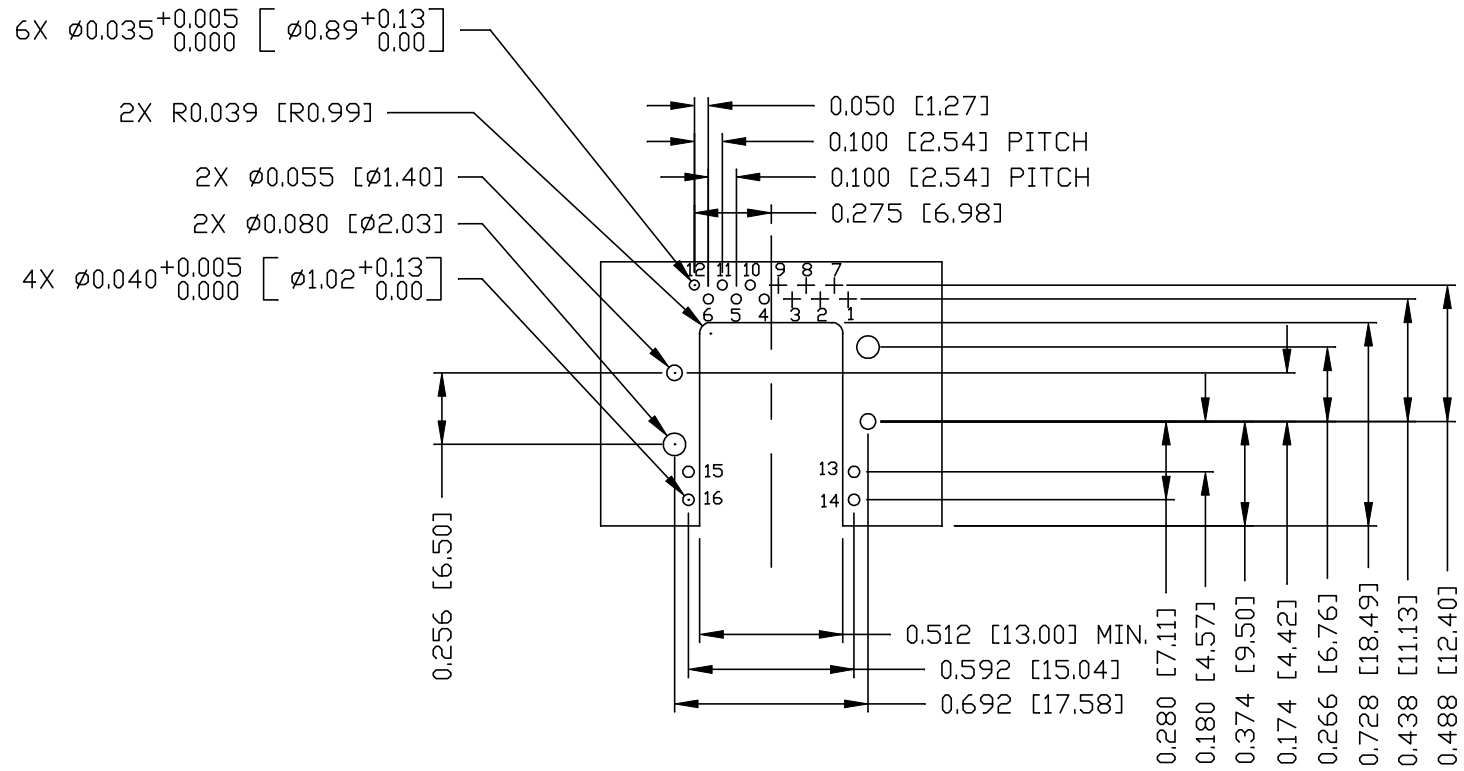


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PRELIMINARY



RECOMMENDED PCB FOOTPRINT  
COMPONENT SIDE VIEW

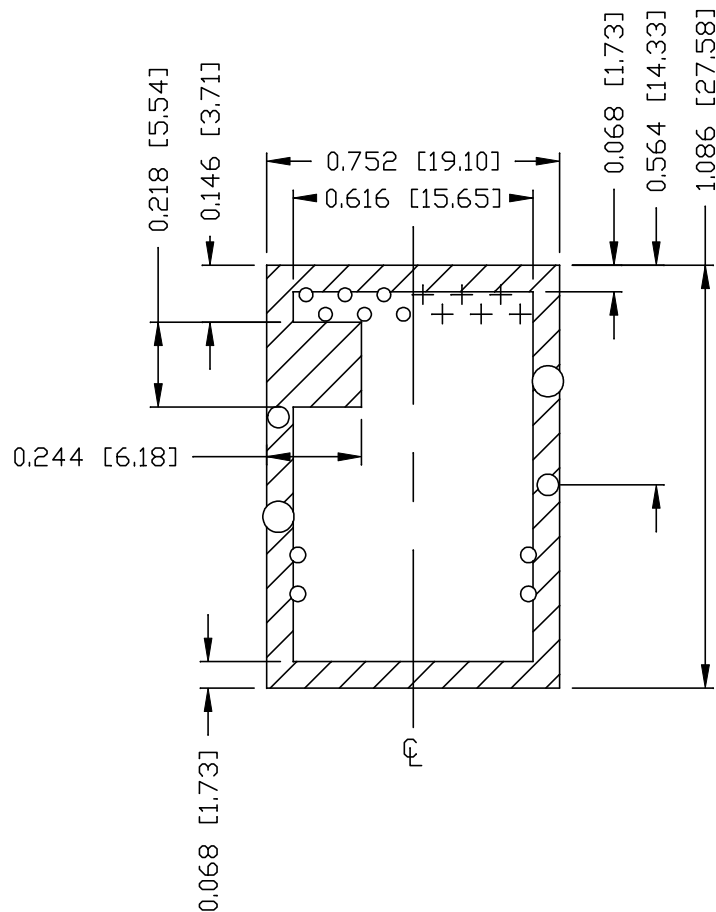


REV. : PA PAGE : 4

ORIGINATED BY ANTON LIAO DATE 2017-06-20	TITLE 10/100 MagJack® (NanoJack) L8BE-1G1T-91A PATENTED	PART NO. / DRAWING NO. L8BE-1G1T91A	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	 a bel group
		FILE NAME L8BE-1G1T91A_PA.DWG	.X	UNIT : INCH [mm]	
DRAWN BY LIU DONGJUN DATE 2017-06-20		.XX	SCALE : N/A		
		.XXX	±0.004	SIZE : A4	

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PRELIMINARY



NOTES

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

REV. : PA PAGE : 5

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DRAWN BY  
LIU DONGJUN  
DATE 2017-06-20

TITLE  
10/100 MagJack®  
(NanoJack)  
L8BE-1G1T-91A  
PATENTED

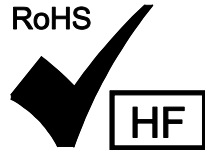
PART NO. / DRAWING NO.  
L8BE-1G1T91A  
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L8BE-1G1T91A\_PA.DWG

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

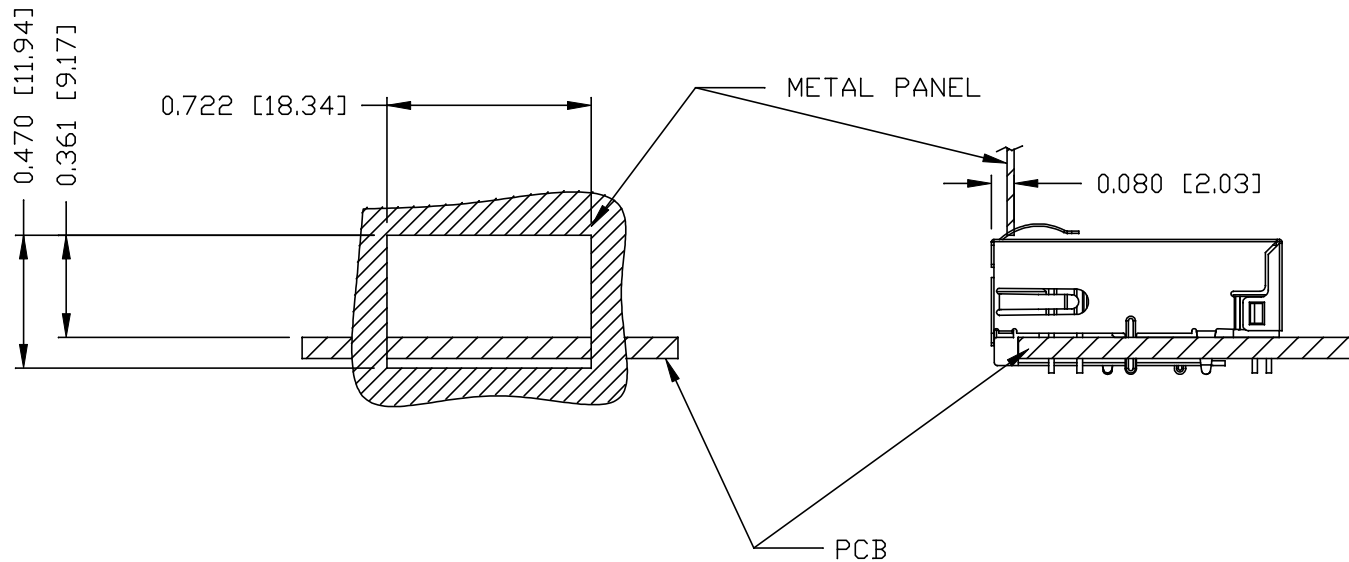


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PRELIMINARY



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-C0 (TOP)  
0200M9999-C1 (BOTTOM)

PACKING QUANTITY : 54 PCS FINISHED GOODS PER TRAY  
11 TRAYS (594 PCS FINISHED GOODS) PER CARTON BOX

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

REV. : PA PAGE : 6

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