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WRITTEN APPROVAL OF BEL FUSE INC.

PRELIMINARY

RoHS

HF

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

CL @ 100kHz/100mVRMS

8mA DC BIAS (0-70°C) 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

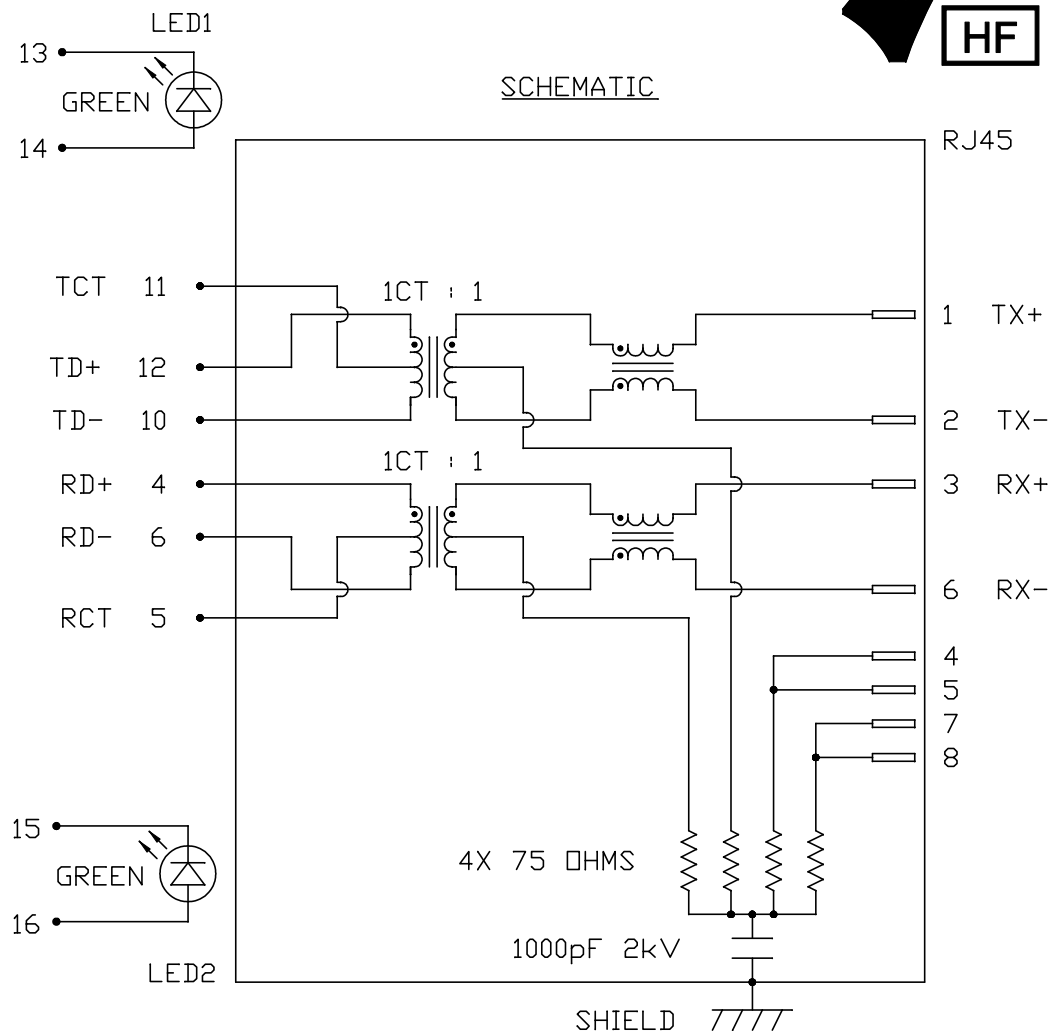
IEEE 802.3 ISOLATION REQUIREMENTS.

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

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

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

REV. : PA

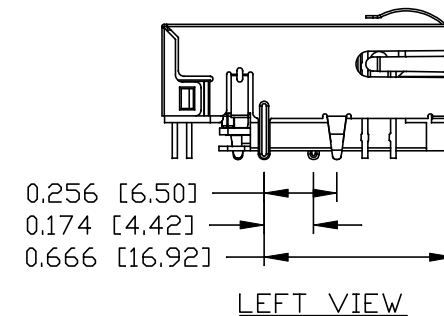
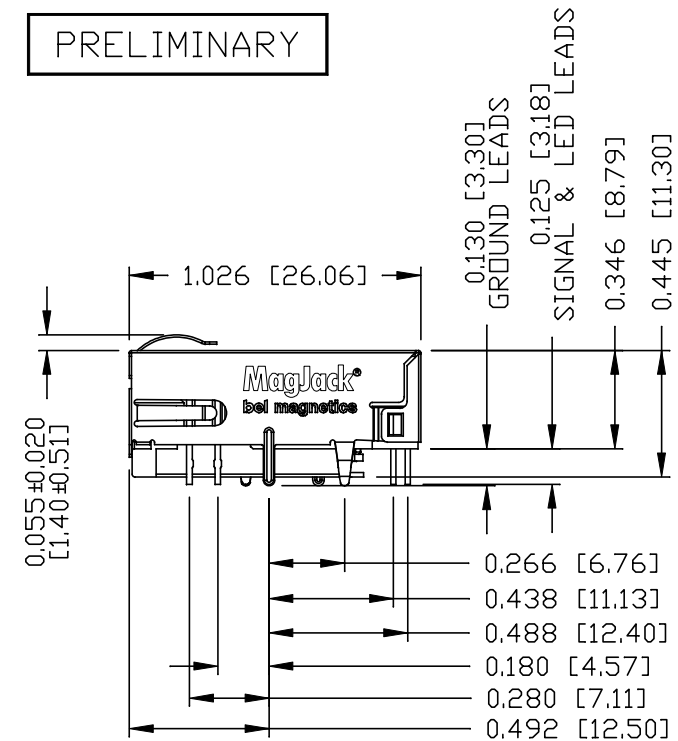
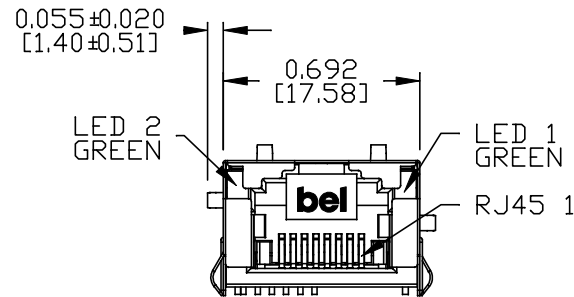
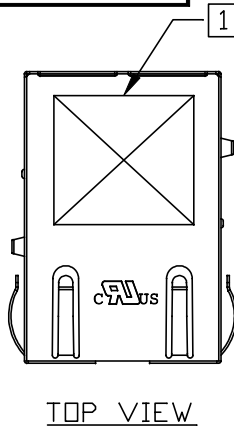
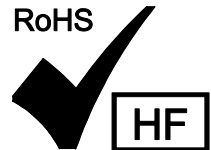
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MECHANICAL SPECIFICATION

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.
100 MICRO-INCH MIN MATTE TIN. PINS ARE SOLDER DIPPED.
- METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)

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


 UL RECOGNIZED - FILE #E196366 AND E169987.

5. 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.	 bel MAGNETIC SOLUTIONS a bel group
DRAWN BY LIU DONGJUN DATE 2017-06-20		FILE NAME L8BE-1G1T91A_PA.DWG	.X	UNIT : INCH [mm]	
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			.XXX	±0.010	
				SIZE : A4	

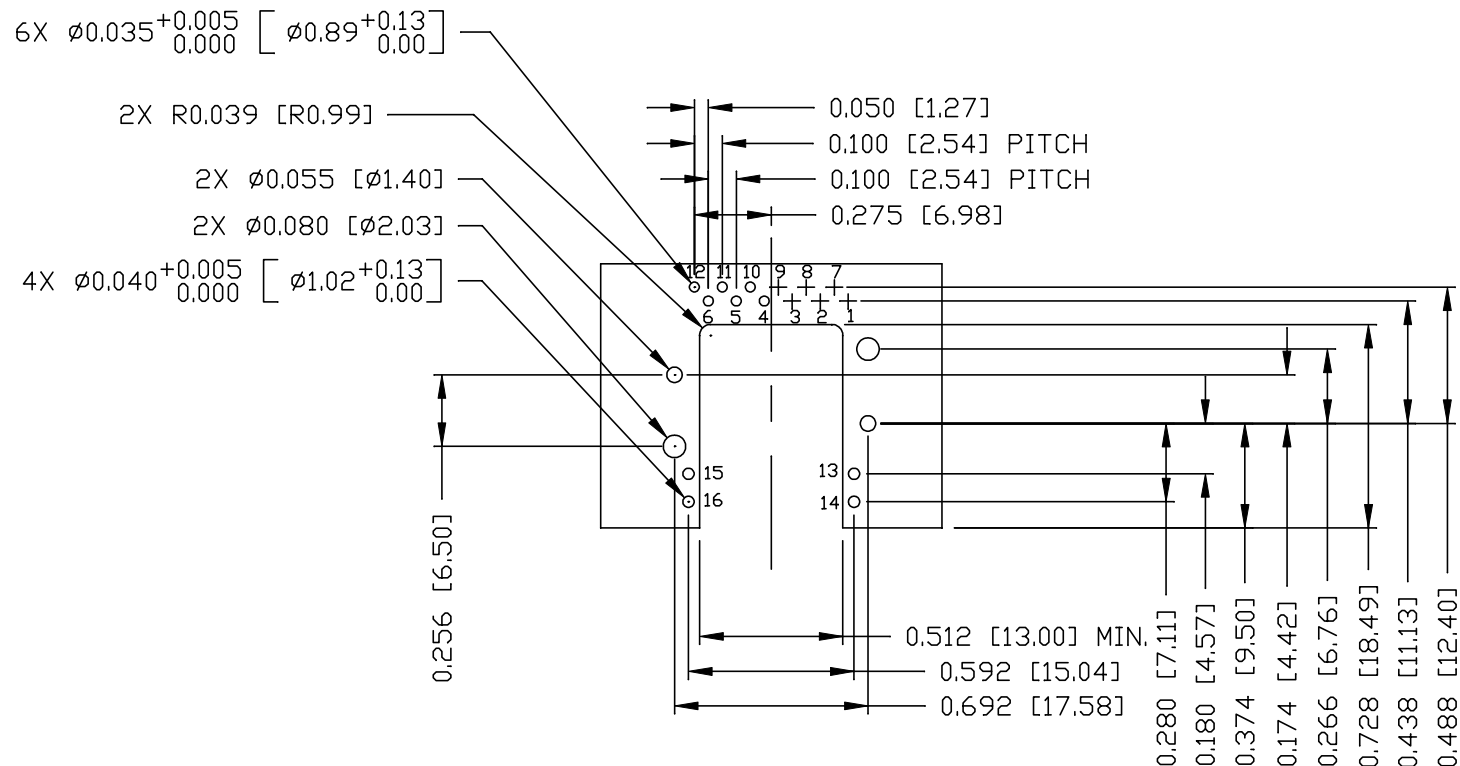
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PRELIMINARY

RoHS



RECOMMENDED PCB FOOTPRINT
 COMPONENT SIDE VIEW



REV. : PA

PAGE : 4

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 (NanoJack)
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STANDARD DIM.
 TOL. IN INCH

.X	/
.XX	
.XXX	

±0.004

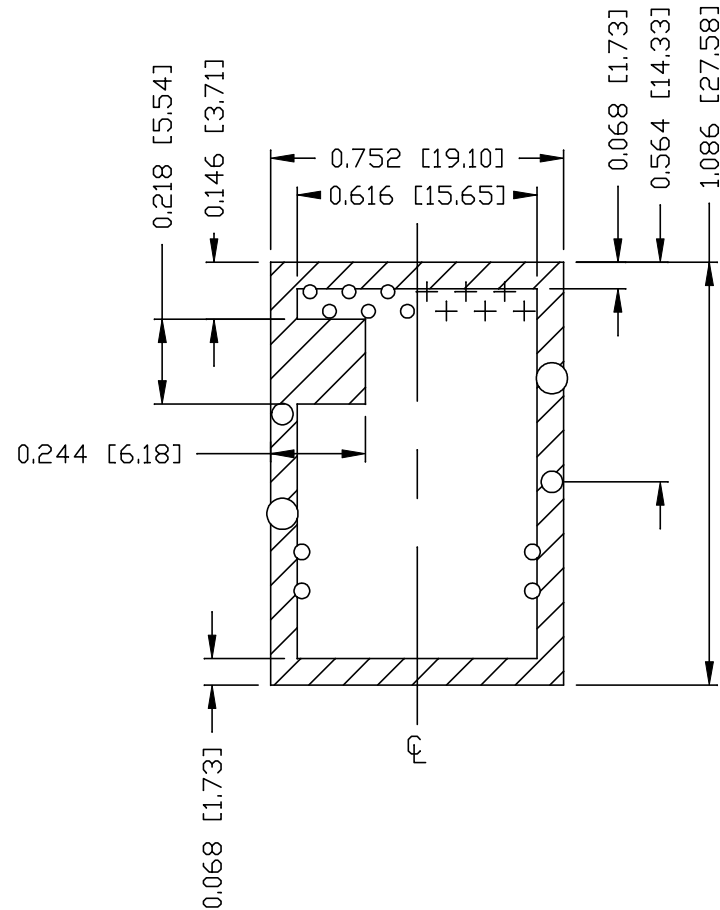
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PRELIMINARY



NOTES

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

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DATE 2017-06-20

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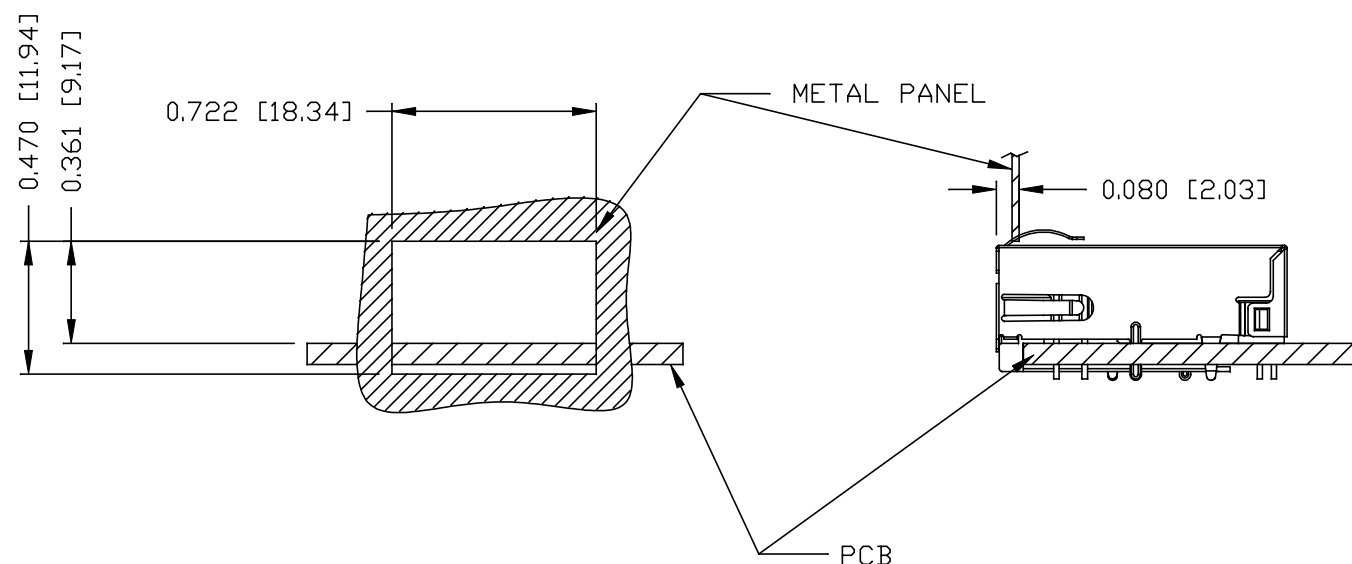
PRELIMINARY

RoHS



HF

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

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

ORIGINATED BY ANTON LIAO DATE 2017-06-20 DRAWN BY LIU DONGJUN 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 .X .XX .XXX ±0.004	[] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4	REV. : PA PAGE : 6 
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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bel:

[L8BE-1G1T-91A](#)