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

#### ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

1CT : 1 ΤX RX 1CT : 1

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

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

 $-12+20L\Box G(f/80MHz) dB$ 40MHz-100MHz

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.

13 • GREEN 14 •	SCHEMATIC SCHEMATIC	<b>HF</b>
TCT 11 •— TD+ 12 •— TD- 10 •— RD+ 4 •— RD- 6 •— RCT 5 •—	1CT : 1	1 TX+ 2 TX- 3 RX+ 6 RX- 4 5 7 8
15 GREEN 16 LED2	4X 75 DHMS \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	

PΑ

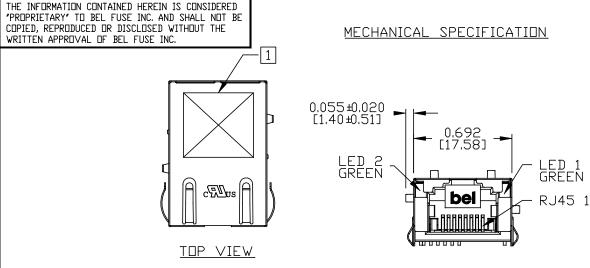
a bel group

PAGE:

2

PRELIMINARY RoHS

						REV. :
ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STAND	ARD DIM.	[ ] METRIC DIM.	
CHOW WANCHUNG Date 2017-06-20	10/100 MagJack®	L8BE-1G1T91A	TOL.	IN INCH	AS REF.	24
	(NanoJack)	DIE NAME	.x		UNIT : INCH [mm]	
DRAWN BY XIE YIMING	L8BE-1G1T-91A	FILE NAME	.xx		SCALE : N/A	7
<b>DATE</b> 2017-06-20	PATENTED	L8BE-1G1T91A_PA.DWG	.xxx		SIZE : A4	4.44
DC002(2)120214	This de	ocument is electronically generated	. This i	s a control	lled copy if used interna	dly



NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA, BLACK

FLAMMABILITY RATING UL 94V-0

CONTACTS: 30 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.

DUTPUT 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.

CTUSUL 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.

ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM. [ ] METRIC DIM. ΑΝΤΠΝ ΙΙΑΠ 10/100 MagJack® AS REF. TOL. IN INCH L8BE-1G1T91A **DATE** 2017-06-20 (NanoJack)  $\mathtt{UNIT} : \mathtt{INCH} \lceil \mathtt{mm} \rceil$ DRAWN BY FILE NAME L8BE-1G1T-91A SCALE: N/A LIU DONGJUN .XX a bel group PATENTED L8BE-1G1T91A\_PA.DWG **DATE** 2017-06-20 SIZE : A4

0,130 [3,30] GROUND LEADS 0,125 [3,1 SIGNAL & LED [11,30] [8,79] 0,346 0,445 **--** 1,026 [26,06] <del>--</del> MagJadk bel magnetics 0,055±0,020 [1,40±0,51] 0.266 [6.76] 0.438 [11.13] 0.488 [12.40] 0,180 [4,57] 0,280 [7,11] 0,492 [12,50] 0.256 [6.50] -0.174 [4.42] -0.666 [16.92] LEFT VIEW 3 REV. : PΑ PAGE:

PRELIMINARY

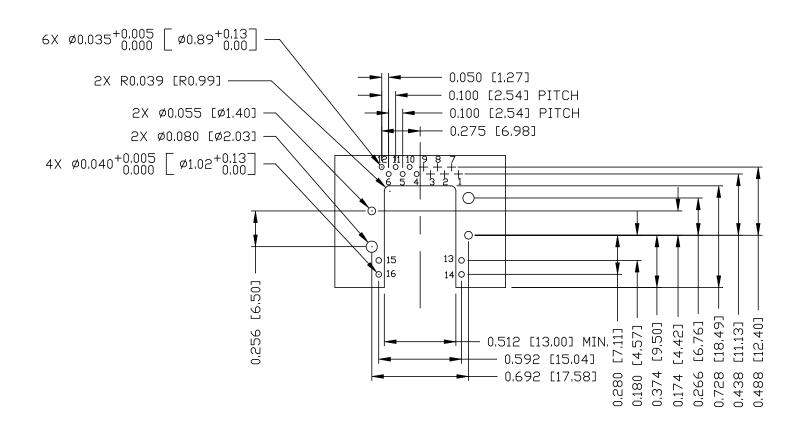
**RoHS** 

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# RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



ORIGIN	ATED BY
ANTO	N LIAO
DATE	2017-06-20

TITLE

DRAWN BY LIU DONGJUN **DATE** 2017-06-20 10/100 MagJack® (NanoJack) L8BE-1G1T-91A PATENTED

PART NO. / DRAWING NO. STANDARD DIM. [ ] METRIC DIM. TOL. IN INCH AS REF. L8BE-1G1T91A UNIT : INCH [mm] FILE NAME SCALE: N/A .XX L8BE-1G1T91A\_PA.DWG 🔂 SIZE : A4

REV. :

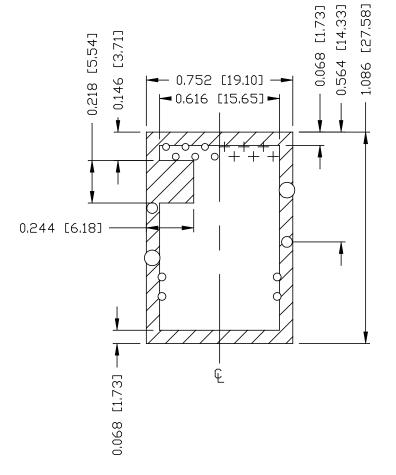
a bel group

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PRELIMINARY



## NOTES

TITLE

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

<b>originated by</b> ANT□N LIA□					
DATE	2017-06-20				
	DONGJUN				
DATE	2017-06-20				

10/100 MagJack® (NanoJack) L8BE-1G1T-91A PATENTED 
 PART NO. / DRAWING NO.
 STANDARD DIM. TOL. IN INCH
 I METRIC DIM. AS REF.

 BBE-1G1T91A
 XX
 UNIT: INCH [mm]

 XXX
 \$CALE: N/A

 L8BE-1G1T91A\_PA.DWG
 XXX
 ±0.004
 \$IZE: A4

bel magnetic solutions

PAGE:

REV. :

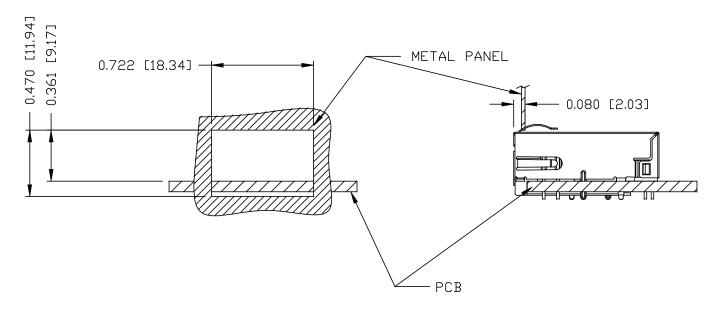
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## SUGGESTED PANEL OPENING



#### 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-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 PACKIING TRAY INSIDE CARTON BOX (INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

						REV. :	PA	PAGE:	6
ORIGINATED BY ANTON LIAO	<b>TITLE</b> 10/100 MagJack <sup>®</sup>	PART NO. / DRAWING NO.		ARD DIM.		.c.Tax	. •		
DATE 2017-06-20	(NanoJack)	L8BE-1G1T91A	TOL.	IN INCH	AS REF. UNIT: INCH [mm]			MAC	GNETIC LUTIONS
DRAWN BY	L8BE-1G1T-91A	FILE NAME	.X			12 A		SOL	LUTIONS
LIU DONGJUN	PATENTED	LODE 101TO1A DADVO	.XX		SCALE : N/A	1	a bel grou	1D	
<b>DATE</b> 2017-06-20	IMILNILD	L8BE-1G1T91A_PA.DWG	.XXX	±0.004	SIZE : A4	•-	_		