RoHS HF

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

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	(0-70 Deg. 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

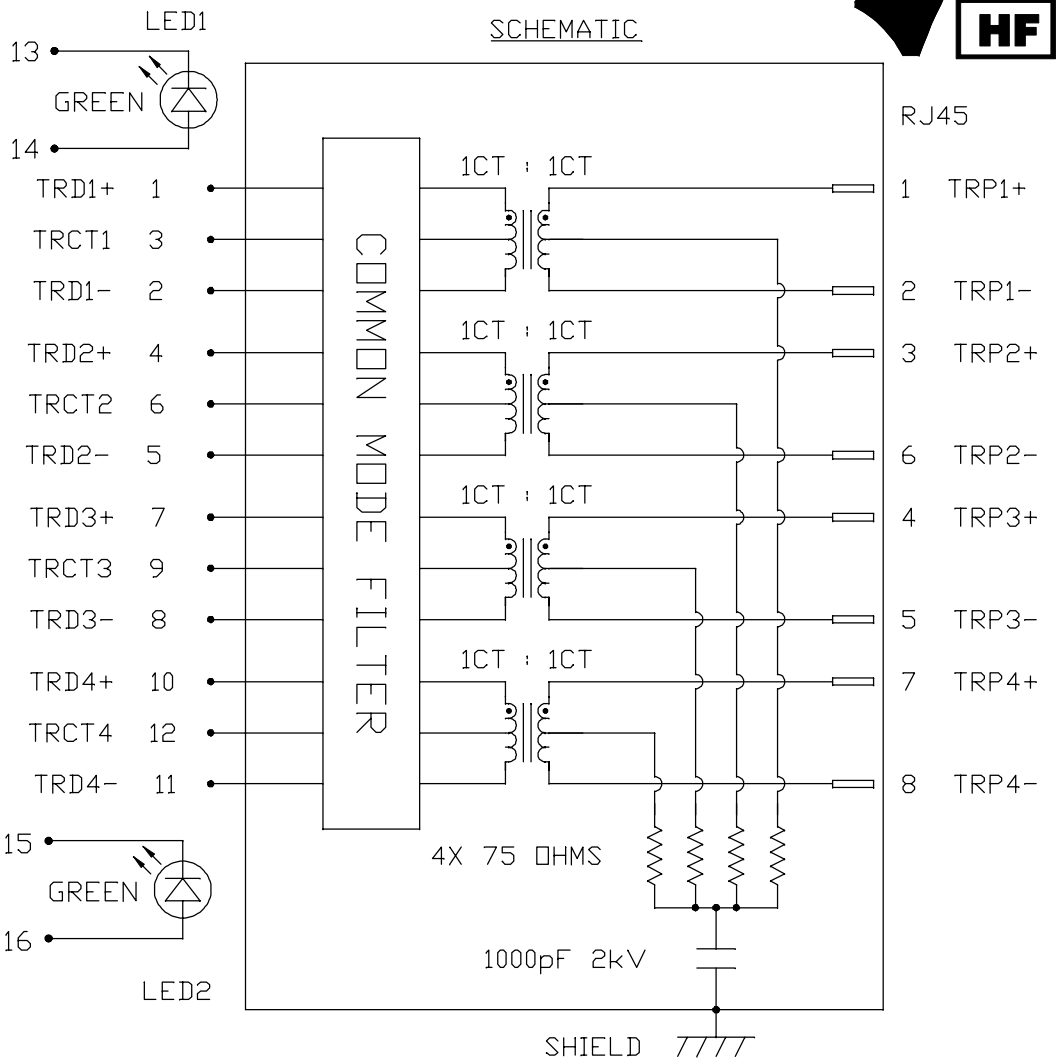
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

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.

SCHEMATIC



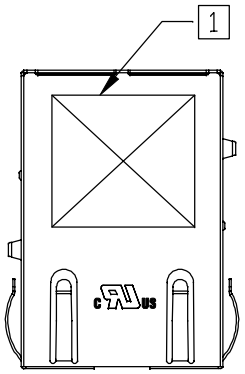
REV. : A | PAGE : 2

ORIGINATED BY: CHOW WANGCHUNG DATE: 2016-11-12	TITLE: gigabit MagJack® (NanoJack) L8BE-1G1T-BFE PATENTED	PART NO. / DRAWING NO.: L8BE-1G1TBFE	STANDARD DIM. TOL. IN INCH .X .XX .XXX	[ ] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
DRAWN BY: LI LINFENG DATE: 2016-11-12		FILE NAME: L8BE-1G1TBFE_A.DWG		

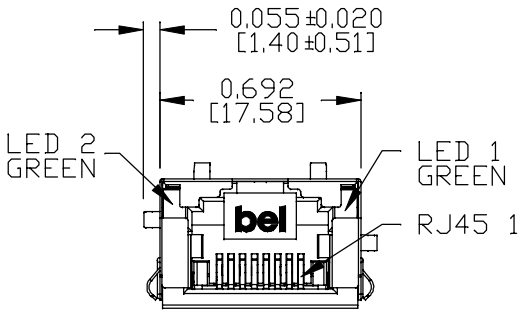
bel MAGNETIC SOLUTIONS a bel group

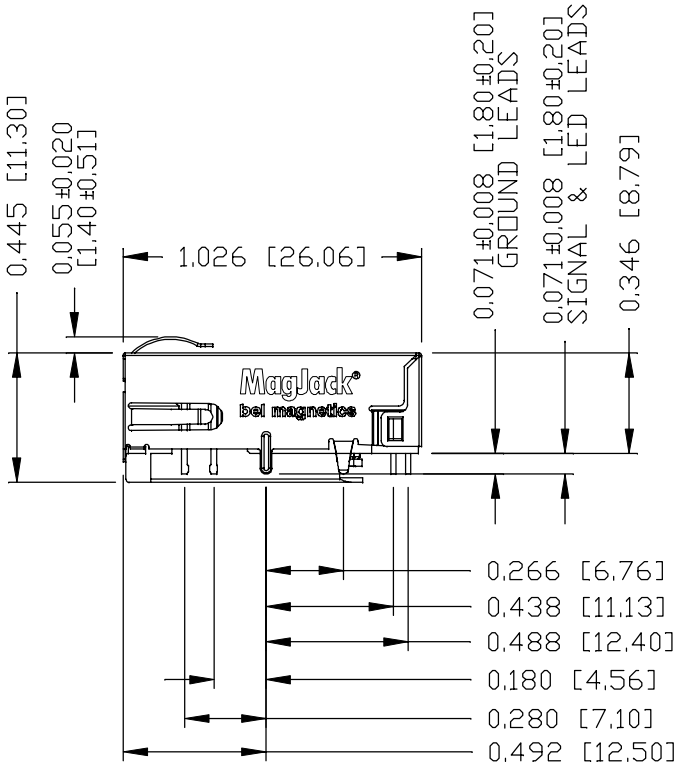
MECHANICAL SPECIFICATION

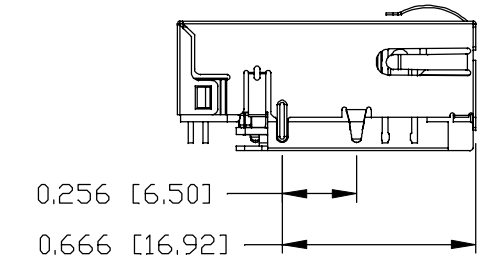
RoHS HF



TOP VIEW







LEFT VIEW

NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA, BLACK
FLAMMABILITY RATING UL 94V-0

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

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)

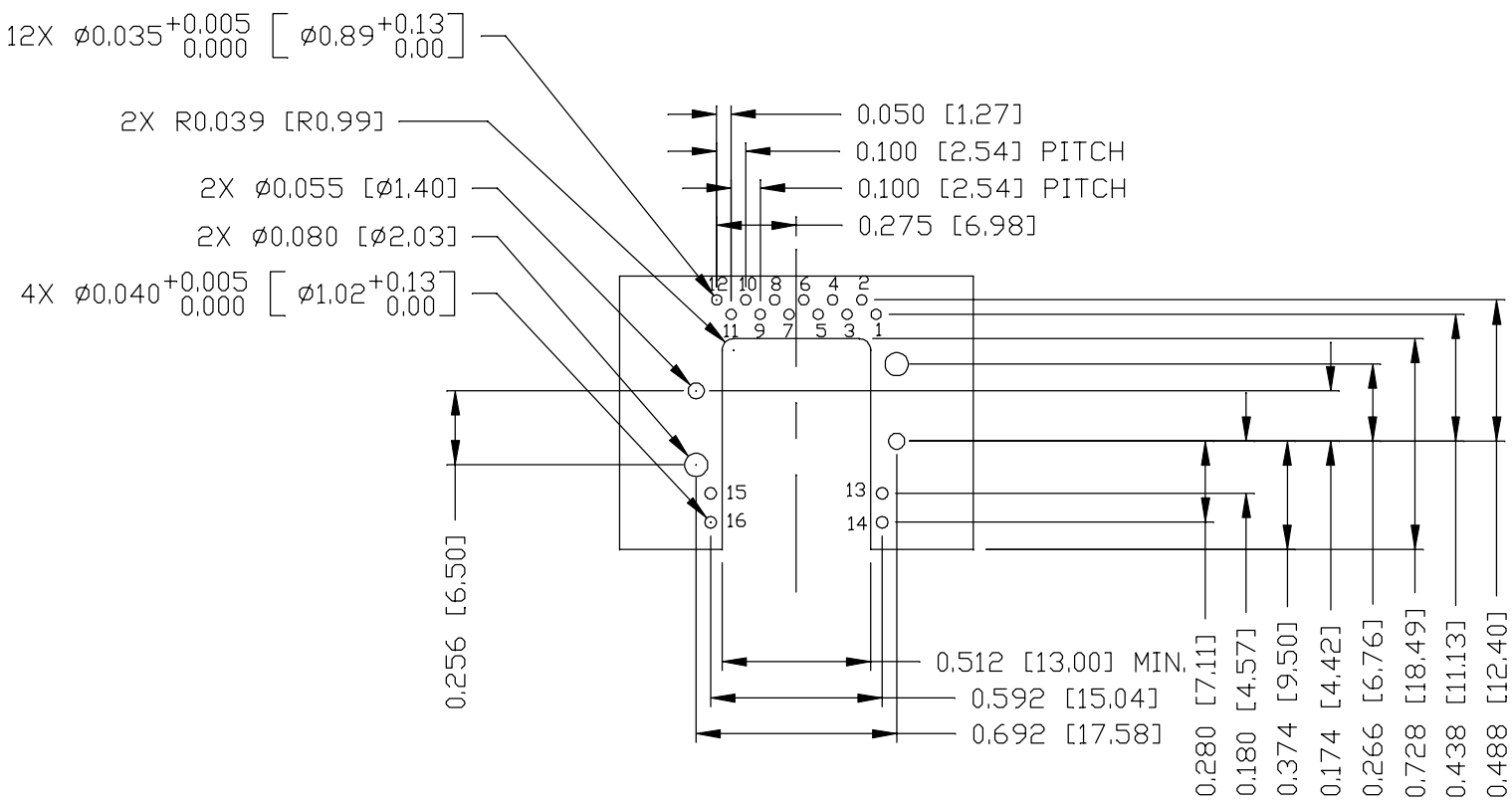
1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND "PATENTED" MARKING.
2. THE PRODUCT IS PATENTED. THE PATENT NUMBER IS U.S. PAT. 7,123,117.
3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
4. THE PRODUCT IS RoHS COMPLIANT AND HALOGEN FREE.

   c UL us 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.

ORIGINATED BY ANTON LIAO DATE 2016-11-12	TITLE: gigabit MagJack® (NanoJack) L8BE-1G1T-BFE PATENTED	PART NO. / DRAWING NO. L8BE-1G1TBFE	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	REV. : A / PAGE : 3
DRAWN BY LIU DONGJUN DATE 2016-11-12		FILE NAME L8BE-1G1TBFE_A.DWG	.X / .XX / .XXX ±0.010	UNIT : INCH [mm] SCALE : N/A SIZE : A4	bel MAGNETIC SOLUTIONS a bel group

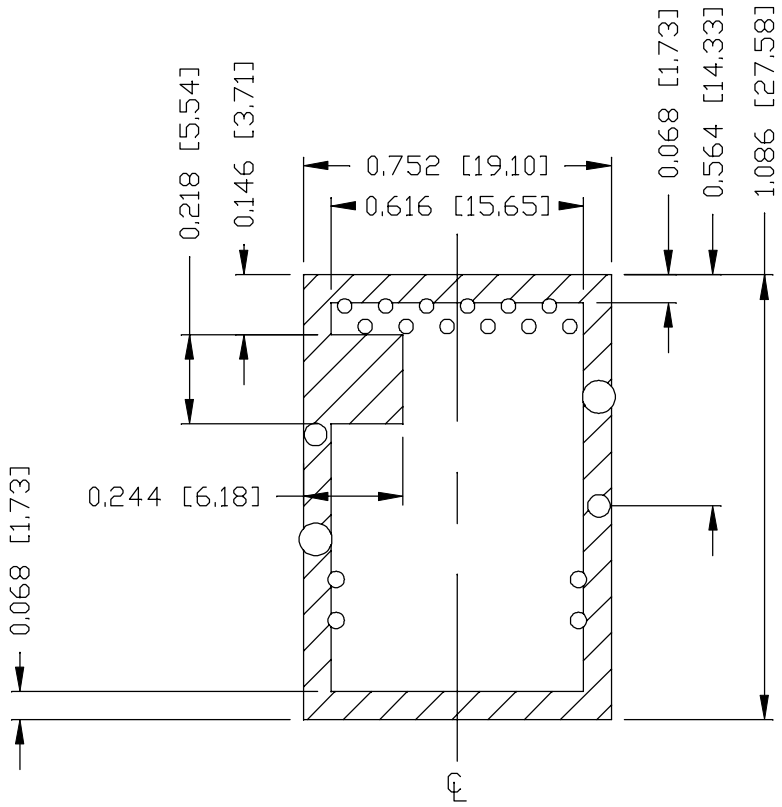
RoHS HF

RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE VIEW



REV. : A				PAGE : 4	
ORIGINATED BY ANTON LIAO DATE 2016-11-12	TITLE gigabit MagJack® (NanoJack) L8BE-1G1T-BFE PATENTED	PART NO. / DRAWING NO. L8BE-1G1TBFE	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	bel MAGNETIC SOLUTIONS a bel group
DRAWN BY LIU DONGJUN DATE 2016-11-12		FILE NAME L8BE-1G1TBFE_A.DWG	.X .XX .XXX ±0,004	UNIT : INCH [mm] SCALE : N/A SIZE : A4	

RoHS HF



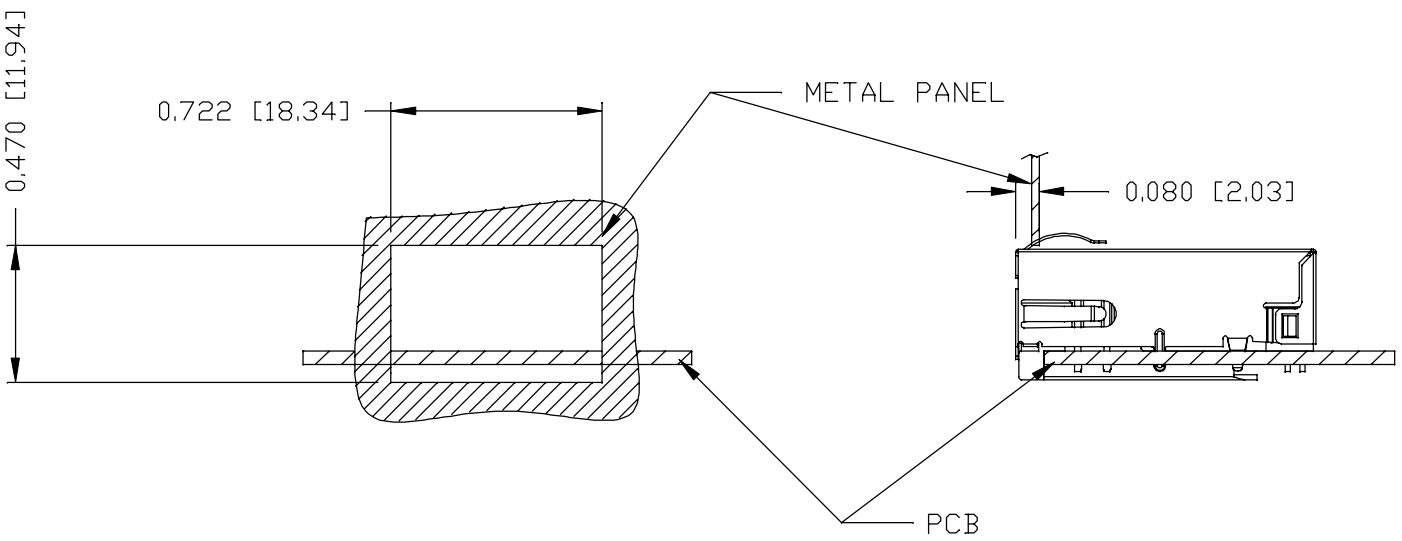
NOTES

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

ORIGINATED BY ANTON LIAO DATE 2016-11-12	TITLE gigabit MagJack® (NanoJack) L8BE-1G1T-BFE PATENTED	PART NO. / DRAWING NO. L8BE-1G1TBFE	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	bel MAGNETIC SOLUTIONS a bel group
DRAWN BY LIU DONGJUN DATE 2016-11-12		FILE NAME L8BE-1G1TBFE_A.DWG	.X .XX .XXX ±0,004	UNIT : INCH [mm] SCALE : N/A SIZE : A4	

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

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

ORIGINATED BY ANTON LIAO DATE 2016-11-12	TITLE: gigabit MagJack® (NanoJack) L8BE-1G1T-BFE PATENTED	PART NO. / DRAWING NO. L8BE-1G1TBFE	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	REV. : A / PAGE : 6
DRAWN BY LIU DONGJUN DATE 2016-11-12		FILE NAME L8BE-1G1TBFE_A.DWG	.X / .XX / .XXX ±0.004	UNIT : INCH [mm] SCALE : N/A SIZE : A4	bel MAGNETIC SOLUTIONS a bel group