Additional Resources: Product Page PCB Footprint Technical Documentation

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LED1 POLARITY			LED2 POLARITY		
PIN 13	PIN 14	COLOR	PIN 15	PIN 16	COLOR
–	+	GREEN	–	+	YELLOW
			+	–	GREEN

PRELIMINARY

RoHS HF

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

8mA DC BIAS (0°C – 70°C)	180 µH MIN.

INS. LOSS

1MHz TO 150MHz	-0.004(fMHz)-0.4 dB MAX

RET. LOSS

1MHz-40MHz	-20 dB MIN
40.1MHz-150MHz	-20+15LOG(f/40MHZ) dB MIN

CROSSTALK

1MHz – 40MHz	-35 dB MIN
40.1MHz-150MHz	-35+15LOG(f/40MHZ) dB MIN

CM TO CM REJ

1MHz – 150MHz	-25 dB MIN

HIPOT (Isolation Voltage): 2250 VDC

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

OPERATING TEMPERATURE: 0°C TO +70°C

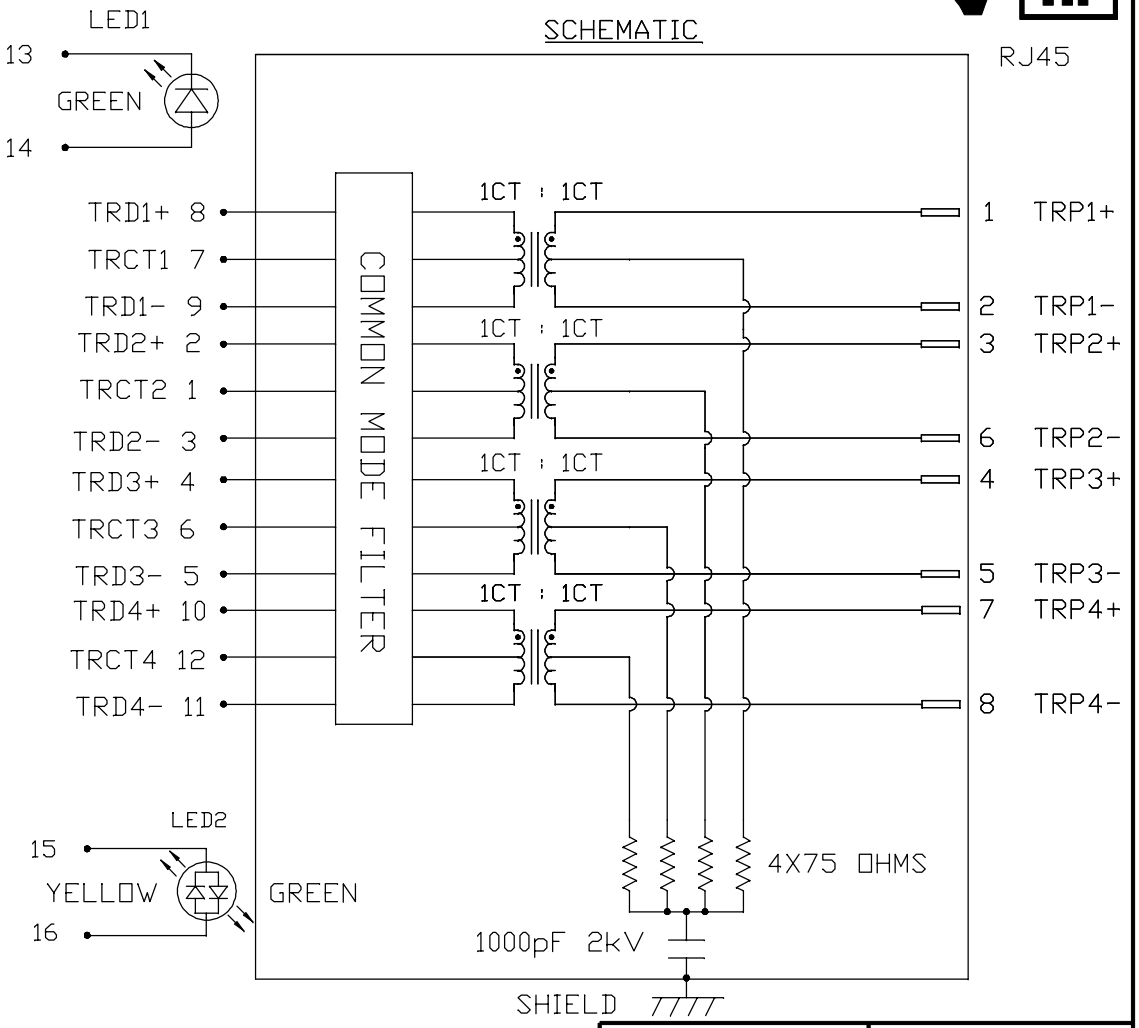
LED 1

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

LED 2

VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
		YELLOW	2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN	570nm TYP.
		YELLOW	590nm TYP.

SCHEMATIC



REV. :	PA
PAGE :	2

ORIGINATED BY CHOW WANCHUNG DATE 2017-11-22	TITLE 2.5 Gigabit MagJack® (Ultra Low Profile) L8BJ-1K1T-KDE PATENTED	PART NO. / DRAWING NO. L8BJ-1K1TKDE FILE NAME L8BJ-1K1TKDE_PA.DWG	STANDARD DIM. TOL. IN INCH .X .XX .XXX	[ ] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
DRAWN BY XIE YIMING DATE 2017-11-22				

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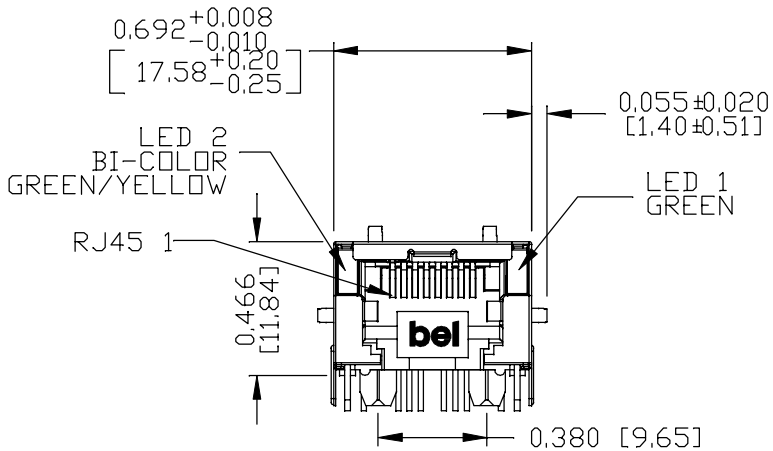
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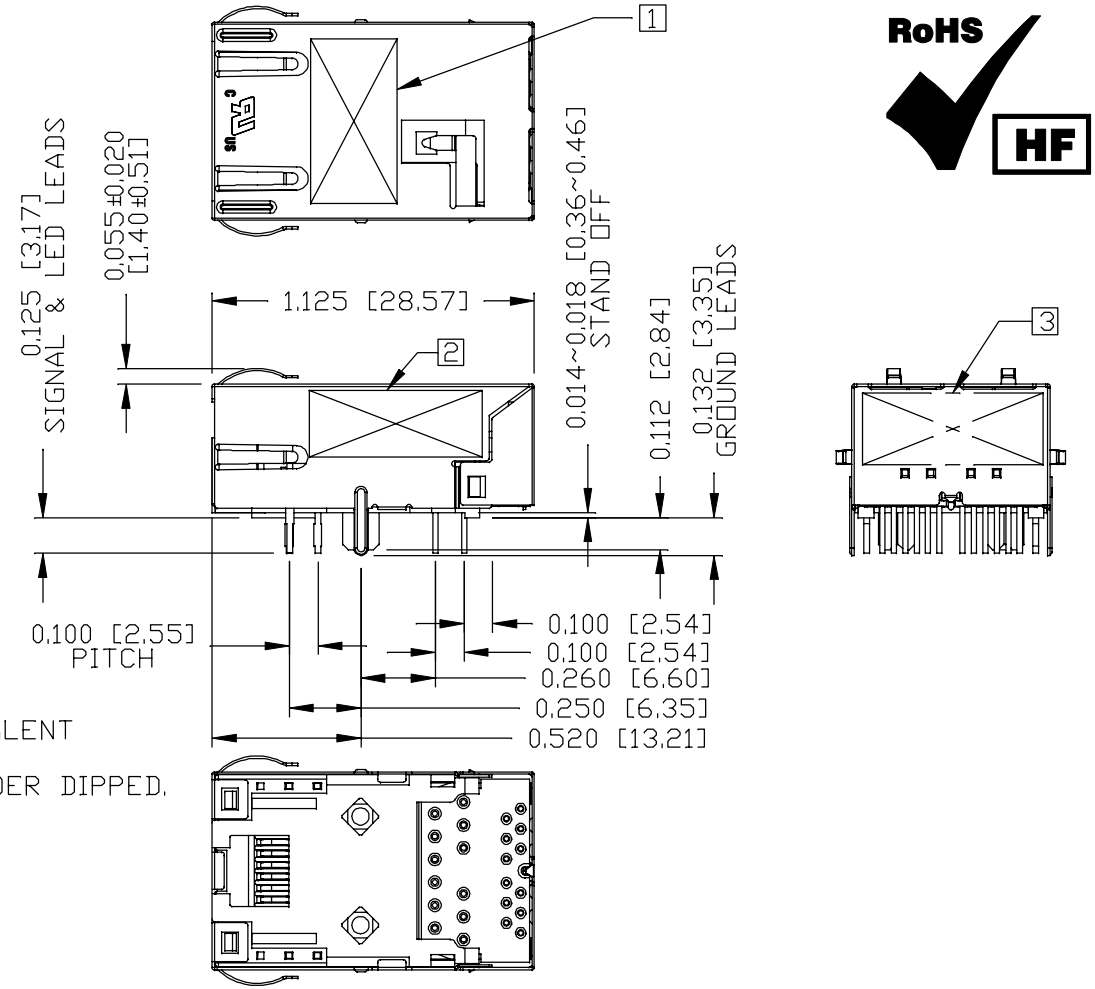
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PRELIMINARY

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NOTES:

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

CONTACT PLATING: 50 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 PART NUMBER AND DATE CODE.
2. MARK PART WITH MFG. LOGO AND MFG. NAME.
3. "PATENTED" MARKING, THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.

c UL us UL RECOGNIZED - FILE #E196366 AND E169987.

4. THE PRODUCT IS RoHS COMPLIANT & HALOGEN FREE.
5. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
6. THE AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.
7. THE PRODUCT IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260°C MAX. AND 10 SECONDS MAX.,

REV. : PA | PAGE : 3

ORIGINATED BY ANTON LIAO DATE 2017-11-22	TITLE: 2.5 Gigabit MagJack® (Ultra Low Profile) L8BJ-1K1T-KDE PATENTED	PART NO. / DRAWING NO. L8BJ-1K1TKDE	STANDARD DIM. TOL. IN INCH / [ ] METRIC DIM. AS REF.
DRAWN BY JESSE LI DATE 2017-11-22		FILE NAME L8BJ-1K1TKDE_PA.DWG	.X / .XX / .XXX ±0,010 — UNIT : INCH [mm] — SCALE : N/A — SIZE : A4

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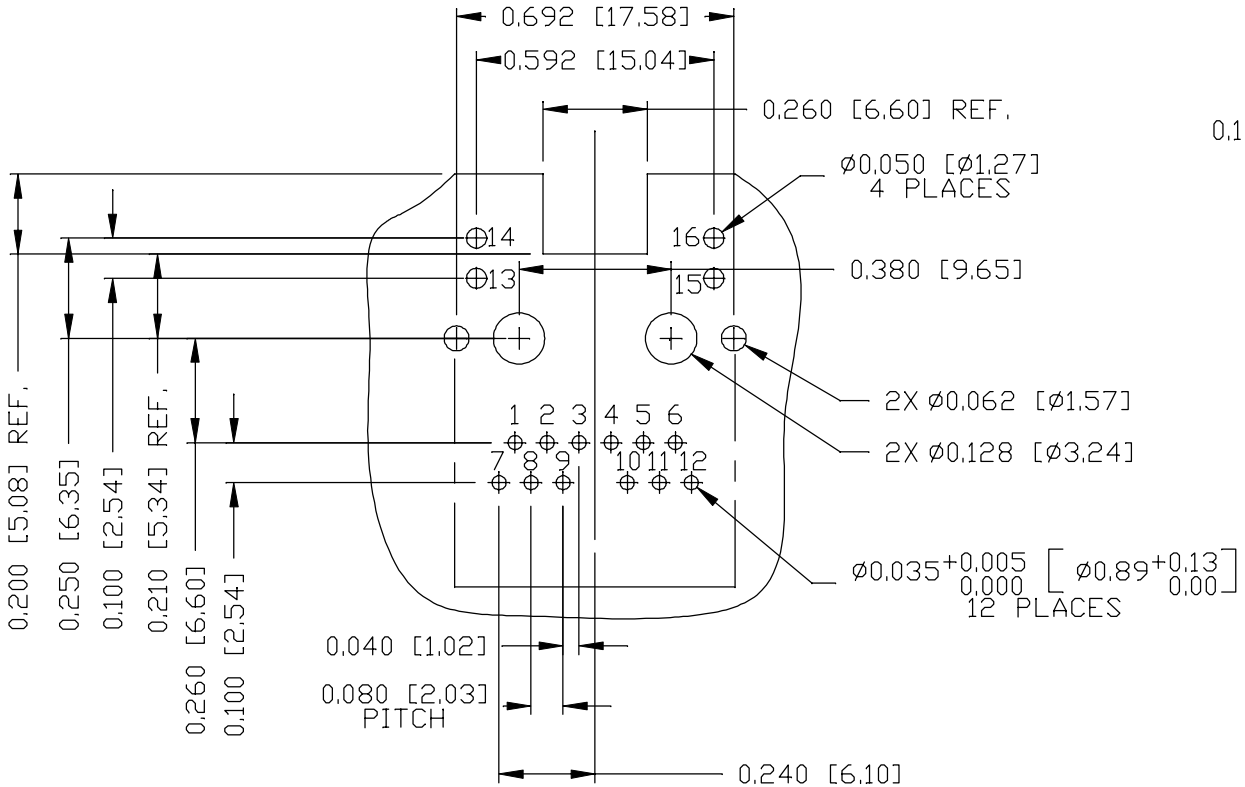
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RECOMMENDED PCB FOOTPRINT

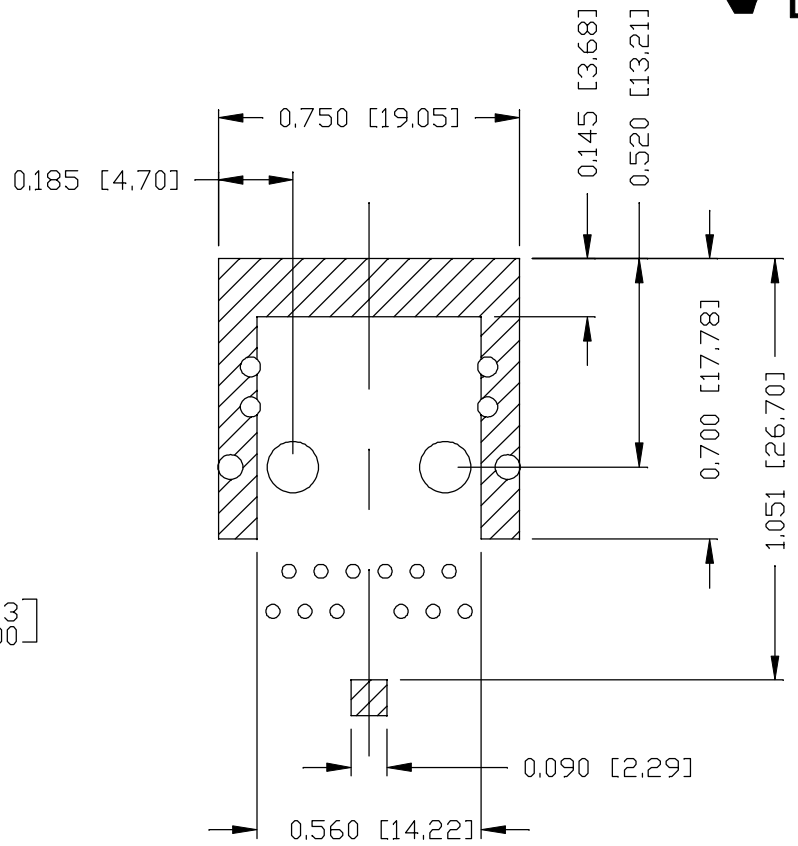
COMPONENT SIDE VIEW

PRELIMINARY

RoHS HF



FOR ONE UNIT



NOTES:

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

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DRAWN BY JESSE LI DATE 2017-11-22		FILE NAME L8BJ-1K1TKDE_PA.DWG	.X .XX .XXX ±0.004	UNIT : INCH [mm] SCALE : N/A SIZE : A4	bel MAGNETIC SOLUTIONS a bel group

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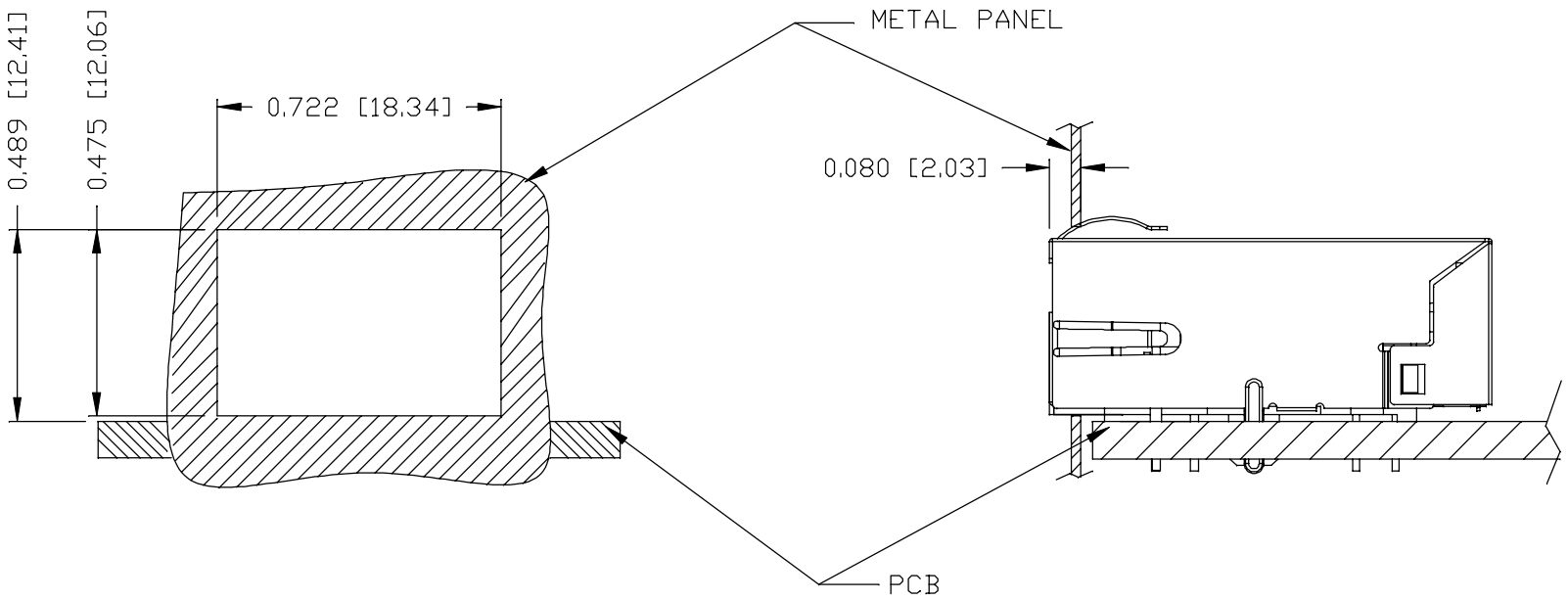
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PRELIMINARY

RoHS HF

SUGGESTED PANEL OPENING



NOTE:

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.

TRAY PACKING INFORMATION

PACKING TRAY : 0200M9999-C6 (TOP)
0200M9999-C7 (BOTTOM)

PACKING QUANTITY : 50 PCS FINISHED GOODS PER TRAY
10 TRAYS (500 PCS FINISHED GOODS) PER CARTON BOX

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

ORIGINATED BY ANTON LIAO DATE 2017-11-22	TITLE 2.5 Gigabit MagJack® (Ultra Low Profile) L8BJ-1K1T-KDE PATENTED	PART NO. / DRAWING NO. L8BJ-1K1TKDE	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	REV. : PA / PAGE : 5
DRAWN BY JESSE LI DATE 2017-11-22		FILE NAME L8BJ-1K1TKDE_PA.DWG	.X .XX .XXX ±0.004	UNIT : INCH [mm] SCALE : N/A SIZE : A4	bel MAGNETIC SOLUTIONS a bel group

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