

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

LED 1 POLARITY			LED 2 POLARITY		
PIN 17	PIN 18	COLOR	PIN 19	PIN 20	COLOR
-	+	YELLOW	+	-	ORANGE
			-	+	GREEN

PRELIMINARY
SCHEMATIC



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%

OCL @ 100kHz/100mVRMS (4CHANNEL)

23mA DC BIAS 120µH MIN.

RET. LOSS (MIN)

1MHz-40MHz	-18 dB MIN
40MHz-250MHz	-18+10LOG10(f/40MHz) dB MIN

CM TO CM REJ

100kHz - 100MHz -30 dB MIN

CM TO DM REJ

100kHz - 100MHz -35 dB MIN

HIPOT (Isolation Voltage):

2250 VDC
100% OF PRODUCTION TESTED TO COMPLY
WITH IEEE 802.3 ISOLATION REQUIREMENTS

BALANCED DC LINE CURRENT

1A MAX, CONTINUOUS
1.2A MAX, FOR 200 MILLISECONDS

OPERATING TEMPERATURE:

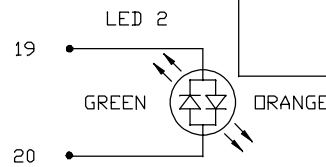
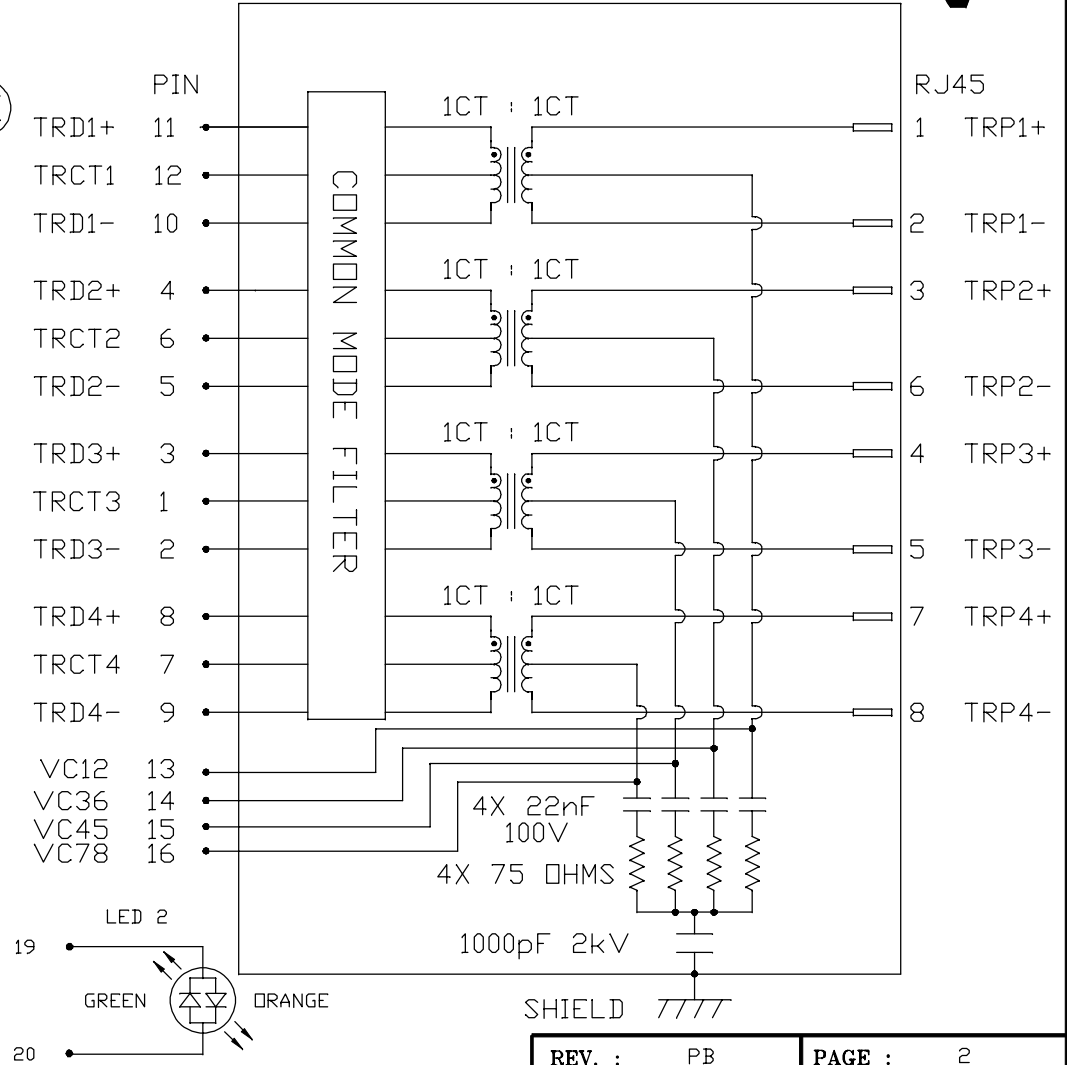
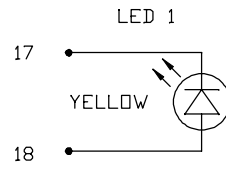
-40°C TO 100°C

LED 1

V _F (FORWARD VOLTAGE)	I _F =20mA	YELLOW	2.1V TYP.
λ _D (DOMINANT WAVELENGTH)	I _F =20mA	YELLOW	590nm TYP.

LED 2

V _F (FORWARD VOLTAGE)	I _F =20mA	GREEN	2.2V TYP.
		ORANGE	2.0V TYP.
λ _D (DOMINANT WAVELENGTH)	I _F =20mA	GREEN	570nm TYP.
		ORANGE	605nm TYP.



ORIGINATED BY
CHOW WANGCHUNG
DATE 2019-03-29
DRAWN BY
XIE YIMING
DATE 2019-03-29

TITLE
5 Gigabit MagJack®
(4PPoE, 100W, Extended Temp.)
FILE NAME
0826-1X1T-KL-F
PATENTED

PART NO. / DRAWING NO.
08261X1TKL-F
FILE NAME
08261X1TKL-F_PB.DWG

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

REV. : PB PAGE : 2

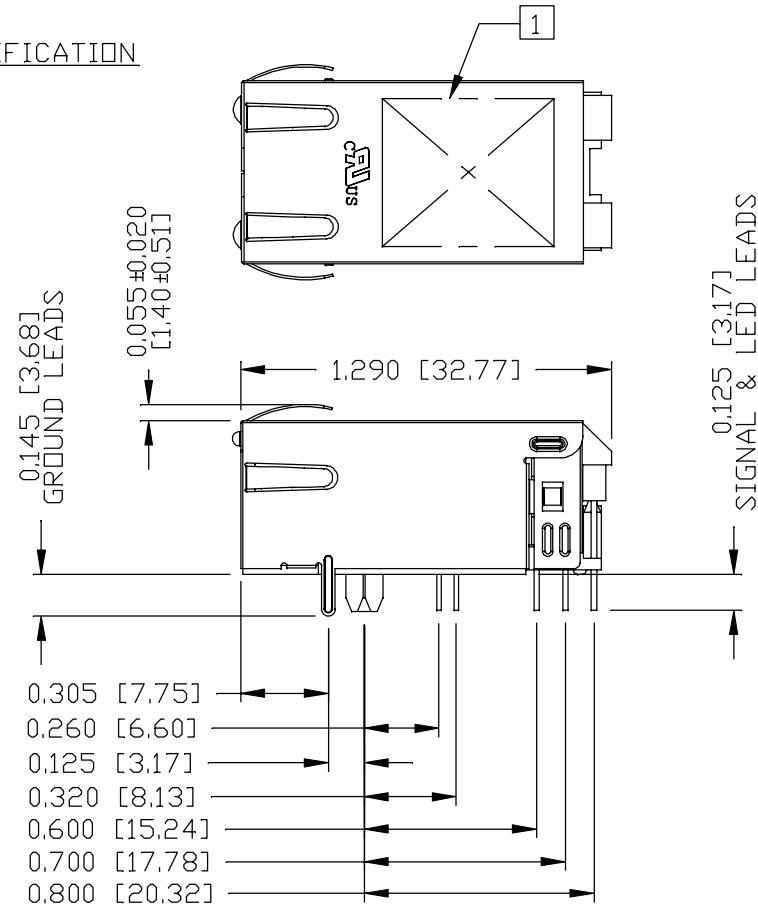
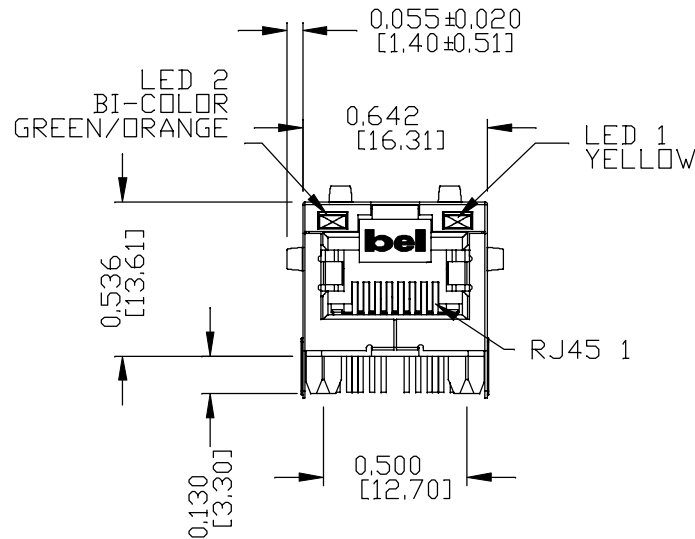


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PRELIMINARY

MECHANICAL SPECIFICATION

RoHS



NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PA, BLACK
FLAMMABILITY RATING UL 94V-0
- CONTACTS: 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 MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND PATENTED.

- UL RECOGNIZED - FILE #E196366 AND E169987.
- 2. THE PRODUCT IS RoHS COMPLIANT.

- 3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
- 4. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S. PAT. 7,123,117.
- 5. THE PART IS RECOMMENDED FOR WAVE SOLDERING, THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX. AND 10 SECONDS MAX..

ORIGINATED BY
ANTON LIAO
DATE 2019-03-29
DRAWN BY
SANDY LIN
DATE 2019-03-29

TITLE
5 gigabit MagJack®
(4PPoE, 100W, Extended Temp.)
0826-1X1T-KL-F
PATENTED

PART NO. / DRAWING NO.
08261X1TKL-F
FILE NAME
08261X1TKL-F_PB.DWG

STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	±0.010
	SIZE : A4

REV. : PB PAGE : 3



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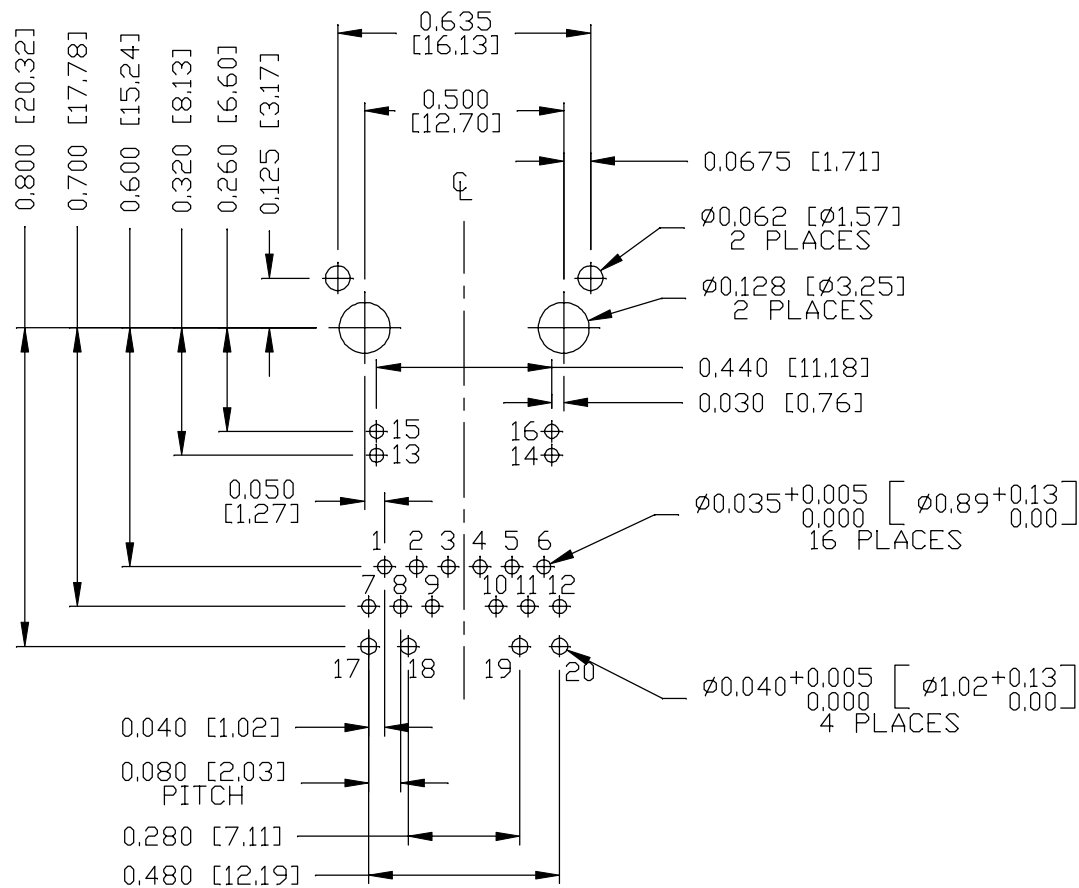
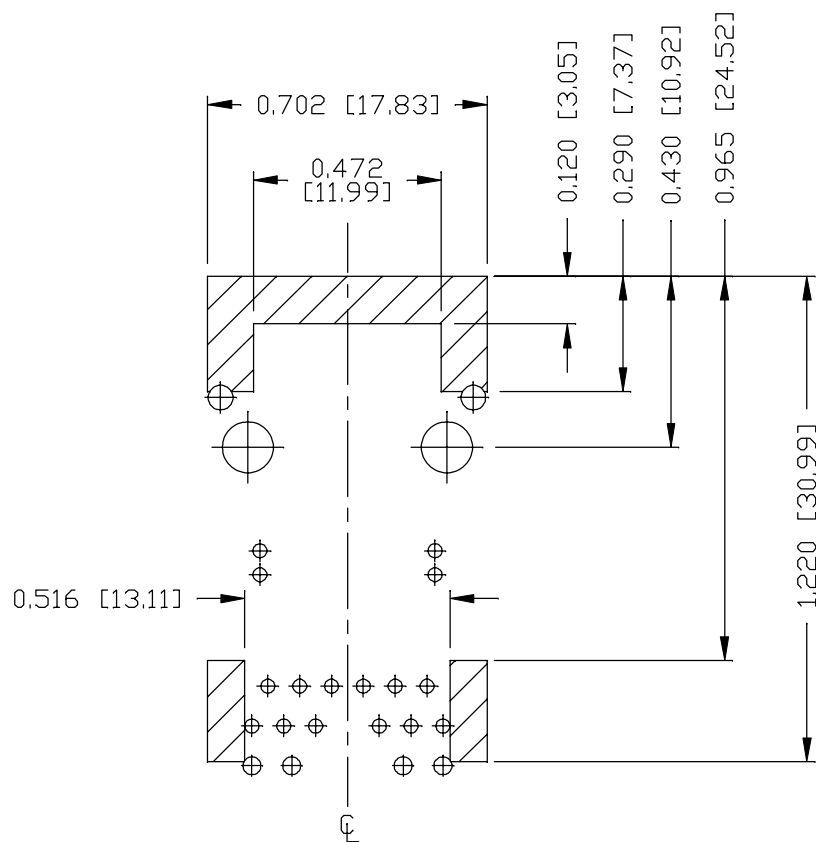
PRELIMINARY

RoHS



RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW



NOTES

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

REV. :	PB	PAGE :	4

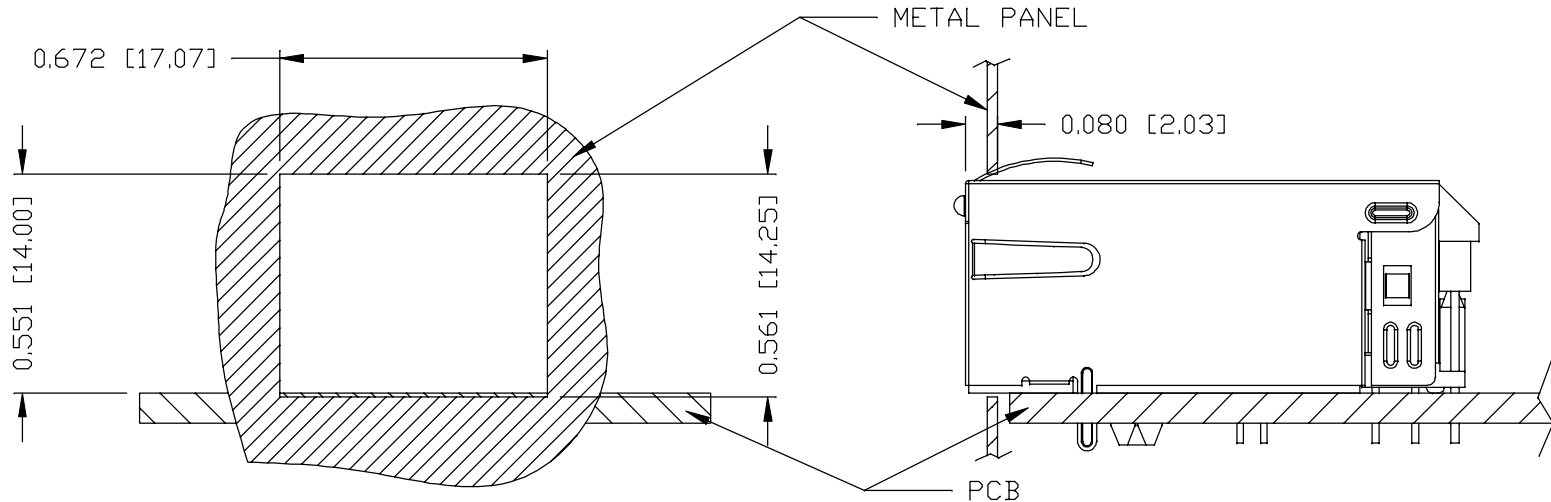
ORIGINATED BY ANTON LIAO DATE 2019-03-29	TITLE 5 glgabit MagJack® (4PPoE, 100W, Extended Temp.) 0826-1X1T-KL-F PATENTED	PART NO. / DRAWING NO. 08261X1TKL-F FILE NAME 08261X1TKL-F_PB.DWG	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.004	[] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
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PRELIMINARY



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.

PACKING INFORMATION

PACKING TRAY : 0200-9999-F6 (TOP)
0200-9999-F7 (BOTTOM)

PACKING QUANTITY : 40 PCS FINISHED GOODS PER TRAY
10 TRAYS (400 PCS FINISHED GOODS) PER CARTON BOX

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

REV. : PB PAGE : 5

ORIGINATED BY
ANTON LIAO
DATE 2019-03-29
DRAWN BY
SANDY LIN
DATE 2019-03-29

TITLE
5 glgabit MagJack®
(4PPoE, 100W, Extended Temp.)
0826-1X1T-KL-F
PATENTED

PART NO. / DRAWING NO.
08261X1TKL-F
FILE NAME
08261X1TKL-F_PB.DWG

STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.	
.X		UNIT : INCH [mm]	
.XX		SCALE : N/A	
.XXX	±0.005	SIZE : A4	

