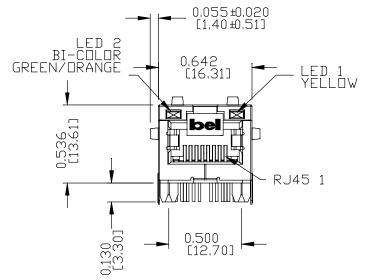
THE INFORMATION CONTAINED HEREIN IS CONSIDERED RoHS "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE LED 1 POLARITY LED 2 POLARITY COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC. PIN 20 PIN 17 **PIN 18** COLOR PIN 19 COLOR YELLOW DRANGE GREEN ELECTRICAL CHARACTERISTICS @ 25°C LED 1 SCHEMATIC TURNS RATIO 17 TP1 1CT : 1CT ±2% RJ45 TP2 YELLOW 1CT : 1CT ±2% TP3 1CT: 1CT ±2% 18 TP4 1CT : 1CT ±2% 1CT : 1CT TRD1+ 11 • 1 TRP1+ DCL @ 100kHz/100mVRMS (4CHANNEL) 11mA DC BIAS 350 uH MIN. TRCT1 12 ► Compliant to IEEE 802,3at specification TRD1-10 •--2 TRP1-22 I .2VI 0.1MHz T□ 1MHz -1.1 dB MAX 1CT : 1CT TRD2+ TRP2+ 4 •-1MHz TD 65MHz -0.8 dB MAX  $\overline{\phantom{a}}$ -1.0 dB MAX 65MHz TO 100MHz TRCT2 6 ← 100MHz TO 125MHz -1.2 dB MAX 5 **•**-TRD2-TRP2- $\overline{\Box}$ RET, LOSS (MIN) 1CT : 1CT  $\Box$ 0.5MHz-40MHz -18 dB TRD3+ 3 •-TRP3+ 40MHz-100MHz  $-12+20L\Box G(f/80MHz) dB$ TRCT3 CM TH CM REJ TRD3-2 • TRP3-100kHz - 100MHz -30 dB MIN CM TO DM REJ 1CT : 1CT 100kHz - 100MHz -35 dB MIN TRD4+ 8 TRP4+ HIPOT (Isolation Voltage): 2250 VDC TRCT4 7 •  $\pi$ 100% OF PRODUCTION TESTED TO COMPLY TRD4-9 la trp4-WITH IEEE 802.3 ISOLATION REQUIREMENTS BALANCED DC LINE CURRENT 720 MA MAX. @ 57 VDC CONTINUOUS VC1 13 • 1.2 A MAX. @ 57 VDC FOR 200 MILLISECONDS 14 4X 22nF LED 1 15 16 100V VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP. VČ4 IF=20mA YELLOW 590nm TYP. AD (DOMINANT WAVELENGTH) LED 2 DRANGE GREEN VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP. 1000pF 2kV DRANGE 2.0V TYP. IF=20mA GREEN 570nm TYP. SHIELD 7777 AD (DOMINANT WAVELENGTH) LED 2 DRANGE 610nm TYP. OPERATING TEMPERATURE: -40°C TO 85°C 2 REV. : PAGE: ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM. [ ] METRIC DIM. gigabit MagJack® CHOW WANCHUNG TOL. IN INCH AS REF. **DATE** 2016-08-11 08261X1TGH-F (PoEp, Extended Temperature) UNIT : INCH [mm] DRAWN BY FILE NAME 0826-1X1T-GH-F SCALE: N/A SKY YUU a bel group 08261X1TGH-F\_D.DWG PATENTED SIZE : A4 2016-08-11 DC002(2)120214 This document is electronically generated. This is a controlled copy if used internally

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MECHANICAL SPECIFICATION



NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA, BLACK

FLAMMABILITY RATING UL 94V-0

CONTACTS: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.

30 MICRO-INCH MIN NICKEL UNDERPLATE.

DUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.016 AND 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.

LE RECOGNIZED - FILE #E196366 AND E169987.

2. THE PRODUCT IS ROHS COMPLIANT.

ORIGINATED BY
ANTON LIAD
DATE 2016-08-11

DRAWN BY
JESSE LI
DATE 2016-08-11

TITLE

gigabit MagJack®

(PoEp, Extended Temperature)

0826-1X1T-GH-F
PATENTED

PART NO. / DRAWING NO.

08261X1TGH-F

FILE NAME

08261X1TGH-F\_D.DWG

STANDARD DIM. [ ] METRIC DIM.
TOL. IN INCH AS REF.

.X UNIT: INCH [mm]

.XX SCALE: N/A

YXX #0.010 # SIZE: A4

U.S. PAT. 7,123,117.

0,055±0,020 [1,40±0,51]

0.305 [7.75] -

0,260 [6,60]

0.125 [3.17]

0.320 [8.13]

0,600 [15,24]

0.700 [17.78]

0,800 [20,32] -

0,145 [3 GROUND L 1.290 [32.77]

3, JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

4.THE PRODUCT IS PATENTED, THE PATENT NUMBER IS

5. THE PART IS RECOMMENDED FOR WAVE SOLDERING.
THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS
260°C MAX AND 10 SECONDS MAX.

REV.: D PAGE: 3

STANDARD DIM. [] METRIC DIM.

bel group

MAGNETIC SOLUTIONS

RoHS

[3,17] LED LEADS

0,125 SIGNAL & 1

Ø0.018

ĊŔĬŴĪŔĖ

Ø0,016

CP WIRE

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ø0.89+0.13

Ø1.02+0.13

4

0.0675 [1.71]

Ø0.062 [Ø1.57] 2 PLACES

Ø0.128 [Ø3.25] 2 PLACES

D

0.440 [11.18] 0.030 [0.76]

# RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW

16<del>♦</del> 14<del>♦</del>

4 5 6 10 11 12

19

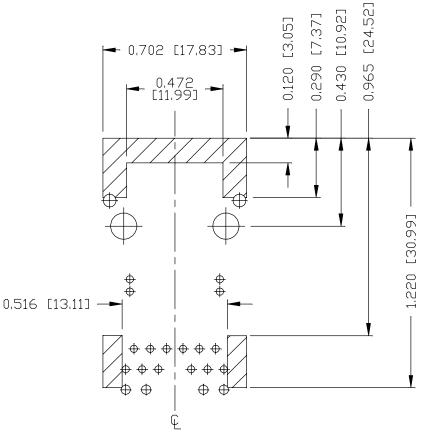
18

0,635 [16,13]

0,500 [12,70]

₩15 l<del>ф</del>13

17



### NOTES

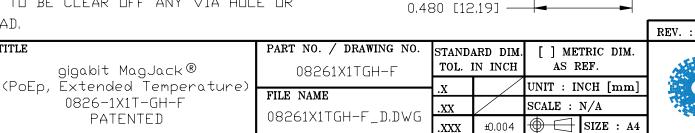
THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

gigabit MagJack®

0826-1X1T-GH-F

PATENTED

TITLE



0.040 [1.02] -0.080 [2.03]

PITCH

0,280 [7,11] -

**MAGNETIC** SOLUTIONS a bel group

PAGE:

DC002(2)120214

DATE

DRAWN BY

JESSE LI

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[20,32]

008'0

[17,78]

[15,2

[6,60] [8,13]

0,260 0,320 0,600

[3,17]

0,125

0,050 [1,27]

ORIGINATED BY

ANTON LIAD

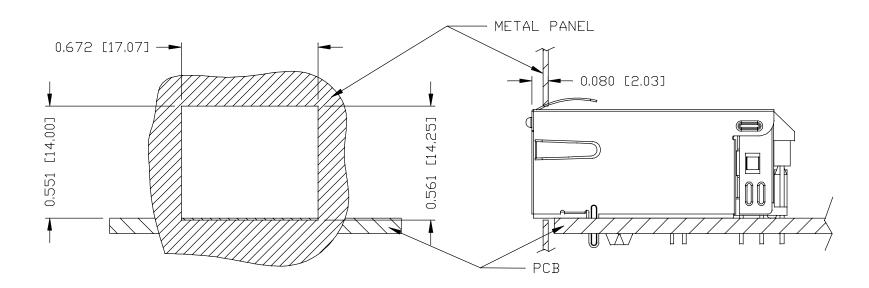
**DATE** 2016-08-11

2016-08-11

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#### 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 GDDDS 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)

							KI
	ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STAND.	ARD DIM.	[ ] METRIC DIM.	
	ANTON LIAO   <b>date</b> 2016-08-11	gigabit MagJack®	08261X1TGH-F	TOL.	IN INCH	AS REF.	
	5.11.5	(PoEp, Extended Temperature)		- x		UNIT : INCH [mm]	l
	DRAWN BY	0826-1X1T-GH-F	FILE NAME	.2			l
	JESSE LI	PATENTED	08261X1TGH-F D.DWG	.XX	/	SCALE: N/A	1
	<b>DATE</b> 2016-08-11	FAIENIED	00E01X11GH 1 _ D.D w G	.XXX	±0,004	SIZE : A4	
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