THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE RoHS LED 1 POLARITY LED 2 POLARITY COPIED, REPRODUCED OR DISCLOSED WITHOUT THE PRELIMINARY WRITTEN APPROVAL OF BEL FUSE INC. **PIN 17** PIN 18 COLOR PIN 19 | PIN 20 COLOR DRANGE YELLOW GREEN ELECTRICAL CHARACTERISTICS @ 25°C LED 1 SCHEMATIC TURNS RATIO 1CT : 1CT ±2% TP1 RJ45 TP2 1CT : 1CT ±2% YELLOW TP3 1CT : 1CT ±2% 18 TP4 1CT : 1CT ±2% 1CT : 1CT TRP1+ TRD1+ 11 •--DCL @ 100kHz/100mVRMS (4CHANNEL) 8mA DC BIAS 180 uH MIN. TRCT1 12 • 23mA DC BIAS 120 µH MIN. \leq TRD1-10 •-TRP1-Compliant to IEEE 802,3at specification 1№2. ⊥ П2З 1CT : 1CT TRD2+ TRP2+ 4 ← 3 1MHz TO 150MHz -0.004(fMHz)-0.4 dB MAX \mathbb{Z} TRCT2 6 •--RET. LOSS (MIN) TRD2- 5 ← 1MHz-40MHz $-20 \, dB$ TRP2-16 $-20+15L\Box G(f/40MHz) dB$ 40.1MHz-150MHz 1CT : 1CT \Box TRD3+ 3 •− 4 TRP3+ CRUSSIAL K -35 dB MIN 1MHz - 40MHzTRCT3 1 ← 40.1MHz-150MHz $-35+15L\Box G(f/40MHZ)$ dB MIN TRD3-2 • 15 TRP3-CM TO CM REJ 1CT : 1CT 1MHz - 150MHz -25 dB MIN TRD4+ 8 • TRP4+ HIPOT (Isolation Voltage): 2250 VDC TRCT4 100% OF PRODUCTION TESTED TO COMPLY π TRD4-TRP4-WITH IEEE 802.3 ISOLATION REQUIREMENTS 9 • 18 BALANCED DC LINE CURRENT 720 MA MAX. @ 57 VDC CONTINUOUS VC12 13 1.2 A MAX. @ 57 VDC FOR 200 MILLISECONDS VC36 14 4X 22nF 15 16 VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP. VC45 100V VČ78 AD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP. 4X 75 □HMS ₹ IF=20mA GREEN 2,2V TYP. VF (FORWARD VOLTAGE) GREEN(本文 DRANGE 1000pF 2kV DRANGE 2.0V TYP. 20 • AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP. SHIELD 7777 LED 2 DRANGE 605nm TYP. **OPERATING TEMPERATURE:** -40°C T□ 85°C PΑ PAGE: 2 REV. : ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM. [] METRIC DIM. 2.5 gigabit MagJack® CHOW WANCHUNG AS REF. TOL. IN INCH DATE 2017-03-28 08261X1TKH-F (4PPoE, 100W, Extended Temp.) UNIT : INCH [mm] DRAWN BY FILE NAME 0826-1X1T-KH-F SCALE: N/A XIE YIMING .XX a bel group 08261X1TKH-F PA.DWG PATENTED DATE 2017-03-28 SIZE : A4 DC002(2)120214

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PRELIMINARY

MECHANICAL SPECIFICATION

511

하다. 00

<u>10</u>4

0.305 [7.75]

0.260 [6.60]

0.125 [3.17]

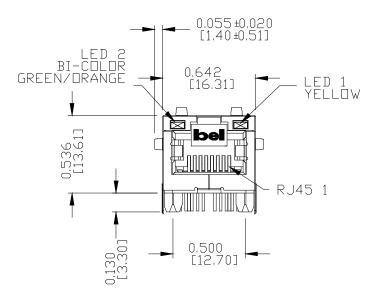
0.320 [8.13]

0.600 [15.24]

0.700 [17.78]

0,145 [3,68] GROUND LEADS

REMARK: NO TB TOOLING FOR SAMPLE BUILDING CURRENTLY.



NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA, BLACK

FLAMMABILITY RATING UL 94V-0

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

0.800 [20.32] 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.

, TI'us UL RECOGNIZED - FILE #E196366 AND E169987.

2. THE PRODUCT IS ROHS COMPLIANT.

PART NO. / DRAWING NO. STANDARD DIM. [] METRIC DIM. AS REF. TOL. IN INCH 08261X1TKH-F UNIT : INCH [mm] FILE NAME SCALE: N/A XX. 08261X1TKH-F_PA.DWG SIZE : A4 XXX. ±0.010

3, JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS,

4.THE PRODUCT IS PATENTED. THE PATENT NUMBER IS U.S. PAT. 7,123,117.

- 1,290 [32,77]

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

> 3 REV. : PAGE: a bel group

Ø0,018

CP WIRE

Ø0.016

CP WIRE

RoHS

DRAWN BY JESSE LI

DC002(2)120214

ORIGINATED BY

ANTON I JAD

DATE 2017-03-28

DATE 2017-03-28

TITLE 2.5 gigabit MagJack® (4PPoE, 100W, Extended Temp.) 0826-1X1T-KH-F PATENTED

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PRELIMINARY



RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW

0,635 [16,13]

0,500 [12,70]

l⊕ 15

♦13

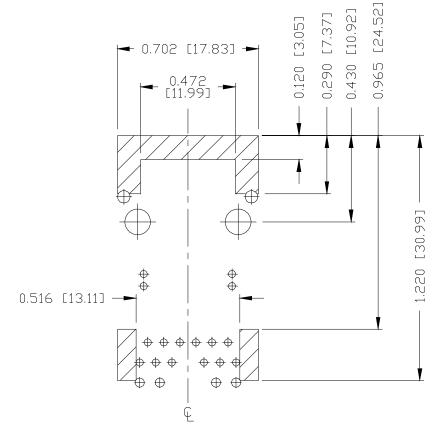
⊕ 18

16₩

14\Phi

314 5 6 10 11 12

19



NOTES

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

1121]	
TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM.	\Box	
2,5 gigabit MagJack®	08261X1TKH-F	TOL. I	IN INCH	AS REF.		
(4PPoE, 100W, Extended Temp.)	FILE NAME	.X		UNIT : INCH [mm]		
0826-1X1T-KH-F		.XX		SCALE : N/A		
PATENTED	08261X1TKH-F_PA.DWG	.XXX	±0,004	SIZE : A4		

[20,32]

0,800 00.700

[6,60] [8,13]

0.260 0,320

[15.2

0.600

[3,17]

0.125

0.050 [1.27]

0.040 [1.02] — 0.080 [2.03]

PITCH

0.280 [7.11] -

0,480 [12,19] -

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0.0675 [1.71]

Ø0.062 [Ø1.57] 2 PLACES

Ø0.128 [Ø3.25] 2 PLACES

Ø1.02+0.13

0.00_

0.440 [11.18] 0.030 [0.76]

DATE 2017-03-28

ORIGINATED BY

ANTON LIAD DATE 2017-03-28

DRAWN BY JESSE LI

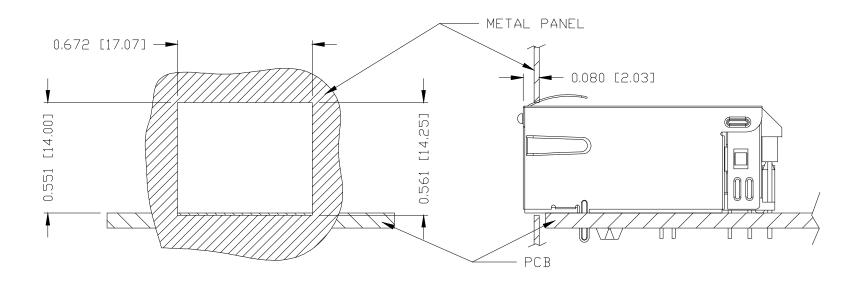
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SUGGESTED PANEL OPENING







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 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. :
	TITLE	PART NO. / DRAWING NO.	STAND.	ARD DIM.	[] METRIC DIM.	, wells
ANTON LIAO Date 2017-03-28	2.5 gigabit MagJack®	08261X1TKH-F	TOL.	IN INCH	AS REF.	24
DRAWN BY	(4PPoE, 100W, Extended Temp.)	FILE NAME	.X		UNIT : INCH [mm]	
JESSE LI	0826-1X1T-KH-F		.XX		SCALE : N/A	
DATE 2017-03-28	PATENTED	08261X1TKH-F_PA.DWG	.XXX	±0,004	SIZE : A4	

bel magne soluti

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