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	+	-	DRANGE	
			1	+	GREEN	

YELLOW

LED 1



# ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO TP1 TP2

1CT : 1CT ±2% 1CT : 1CT ±2% 1CT : 1CT ±2%

TP3 TP4 1CT : 1CT ±2%

□CL @ 100kHz/100mVRMS

19mA DC BIAS (-40°C - 85°C) 120 µH MIN.

INS, LOSS

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

RET. LOSS

1MHz-40MHz -20 dB MIN

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

CRUSSIAI K

1MHz - 40MHz -35 dB MIN

40.1MHz-150MHz  $-35+15L\Box G(f/40MHZ)$  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.

BALANCED DC LINE CURRENT 720 mA MAX, @ 57 VDC CONTINUOUS

1.2A MAX. @ 57 VDC FOR 200 MILLISECONDS

LED 1

VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

LED 2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

TITLE

DRANGE 2.0V TYP.

570nm TYP. λD (DOMINANT WAVELENGTH) IF=20mA GREEN

DRANGE 605nm TYP,

OPERATING TEMPERATURE: -40°C TD 85°C

PIN		SCH	HEMATIC .			RJ45
TRD1+ 11 •		1CT : 1CT				1 TRP1+
TRCT1 12 •						
TRD1- 10 •		1CT : 1CT	<del></del>			2 TRP1-
TRD2+ 4 •		311/2				3 TRP2+
TRCT2 6 • − − − − − − − − − − − − − − − − − −						6 TRP2-
TRD3+ 3 •		1CT + 1CT				4 TRP3+
TRCT3 1 •	—   '·'					
TRD3- 2 •	<u> </u>	1CT : 1CT	$\longrightarrow$			5 TRP3-
TRD4+ 8 •		3118	$\rightarrow \rightarrow \rightarrow$			7 TRP4+
TRCT4 7 •── TRD4- 9 •──			$\neg \mid \mid \mid \mid$			8 TRP4-
VC12 13 •						0 1111 4
VC36 14 •						
VC45 15 •			$\rightarrow$			
VC78 16 •			$\rightarrow$	4V22.pF		
				4X22nF 100V		
				4X75 OHI	AS	
GREEN (	DRANGE	1000pF	2kV <u> </u>			
LED 2		SHIEL	.D 7/// d.			
			REV. :	Α	PAGE:	2

AS REF.

SIZE : A4

CCLICMATIC

ORIGINATED BY CHOW WANCHUNG **DATE** 2017-02-22 DRAWN BY LINFENG LI

DATE 2017-02-22

2.5 Gigabit MagJack® 4PPoE 0826-1X1T-HT-F PATENTED

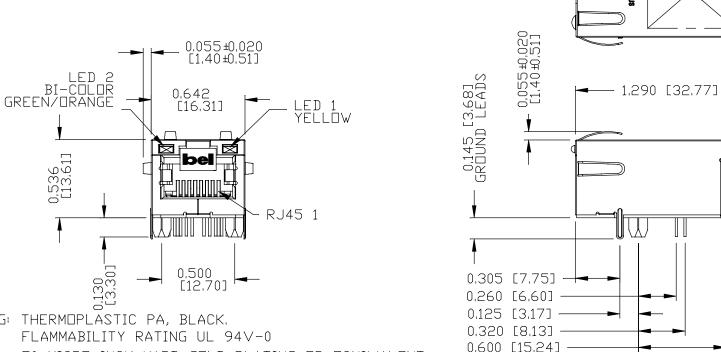
PART NO. / DRAWING NO. STANDARD DIM. [ ] METRIC DIM. TOL. IN INCH 08261X1THT-F UNIT : INCH [mm] FILE NAME SCALE: N/A .XX 08261X1THT-F\_A,DWG XXX.

19

20



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.



MECHANICAL SPECIFICATION

100 MICRO-INCH MIN MATTE TIN, PINS ARE SOLDER DIPPED, 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.

NOTES: PLASTIC HOUSING: THERMOPLASTIC PA, BLACK,

CUNTACTS: 50 MICRO-INCH HARD GOLD PLATING OR FQUIVALENT.

30 MICRO-INCH MIN NICKEL UNDERPLATE,

0,800 [20,32] DUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0,016 AND DIA 0,018 INCH.

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,

c Rius UL RECOGNIZED - FILE #E196366 AND E169987.

2. THE PRODUCT IS ROHS COMPLIANT.

ORIGINATED BY TITLE SANDY LIN **DATE** 2017-02-22

DRAWN BY XUE RIPING **DATE** 2017-02-22 2.5 gigabit MagJack® 4PPoF 0826-1X1T-HT-F PATENTED

PART NO. / DRAWING NO. 08261X1THT-F FILE NAME 08261X1THT-F A,DWG

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

0.700 [17.78]

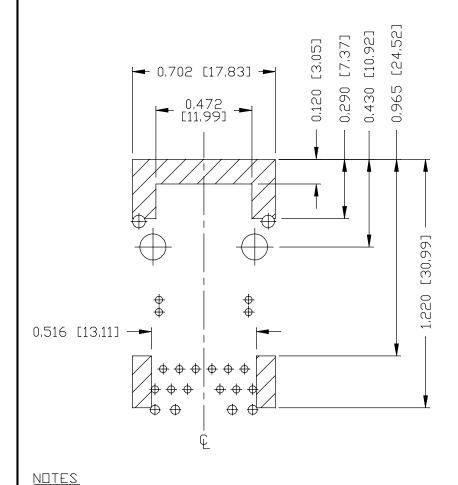
3 REV. : PAGE: a bel group

0,125 SIGNAL & 1

RoHS

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.





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

#### 0,635 [16,13] [17,78] [15,24] [20,32] [8,13] [6,60] [3,17] 0,500 [12,70] 008'0 0.700 0,600 0,320 0,260 0,125 0.0675 [1.71] Ø0.062 [Ø1.57] 2 PLACES Ø0,128 [Ø3,25] 2 PLACES 0,440 [11,18] 0,030 [0,76] 16⊕ l**⊕**15 **⊕**13 14<del>0</del> 0,050 [1,27] Ø0.89+0.13 4 5 6 10 11 12 + + + 2 181 4 \_ Ø1.02+0.13 \_ Ø1.02+0.00\_ 17 18 19 0,040 [1,02] — 0.080 [2.03] PITCH 0,280 [7,11] -0.480 [12.19]

RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW

ORIGINATED BY TITLE SANDY LIN **DATE** 2017-02-22 DRAWN BY XUE RIPING 2017-02-22

2.5 gigabit MagJack® 4PPoF 0826-1X1T-HT-F PATENTED

PART NO. / DRAWING NO. 08261X1THT-F FILE NAME 08261X1THT-F A.DWG

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

±0.004

SIZE: A4

REV.:

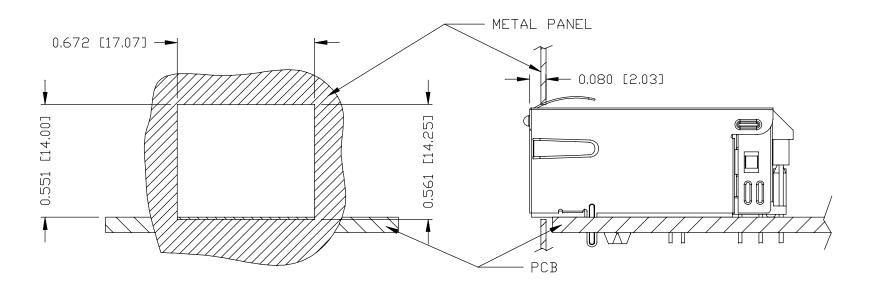
Α

SOLUTIONS a bel group

PAGE:

# 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)

							R
	ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STAND	ARD DIM.	[ ] METRIC DIM.	
ı	SANDY LIN	2,5 gigabit_MagJack <sup>®</sup>	08261X1THT-F		IN INCH	AS REF.	
ı	DATE 2017-02-22	4PPoE		x		UNIT : INCH [mm]	
ı	DRAWN BY XUE RIPING	0826-1X1T-HT-F	FILE NAME	vv	/	SCALE : N/A	1
		PATENTED	08261X1THT-F A.DWG	.XX		, ,	ł
ı	DATE 2017-02-22			.XXX	±0,004	SIZE : A4	匚

REV. : A PAGE : 5

MAGNETIC SOLUTIONS
a bel group