

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.

LED1 POLARITY			LED2 POLARITY		
PIN 15	PIN 16	COLOR	PIN 17	PIN 18	COLOR
-	+	YELLOW	+	-	ORANGE
			-	+	GREEN

#### ELECTRICAL CHARACTERISTICS @ 25°C

##### URNS RATIO

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

##### DCL @ 100kHz/100mVRMS

8mA DC BIAS 350µH MIN.

##### INS. LOSS

0.1MHz TO 1MHz	-1.1 dB MAX
1MHz TO 65MHz	-0.5 dB MAX
65MHz TO 100MHz	-0.8 dB MAX
100MHz TO 125MHz	-1.2 dB MAX

##### RET. LOSS (MIN)

0.5MHz-40MHz	-18 dB
40MHz-100MHz	-12+20LOG(f/80MHz) dB

##### CROSS TALK

1MHz - 60MHz	-35dB MIN
60MHz - 100MHz	-25dB MIN

##### CM TO CM REJ

100kHz - 100MHz	-30 dB MIN
-----------------	------------

##### CM TO DM REJ

100kHz - 100MHz	-35 dB MIN
-----------------	------------

##### HIPOT (Isolation Voltage): 1500 Vrms or 2250VDC

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

##### 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.  
 ORANGE 2.0V TYP.  
 λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.  
 ORANGE 610nm TYP.

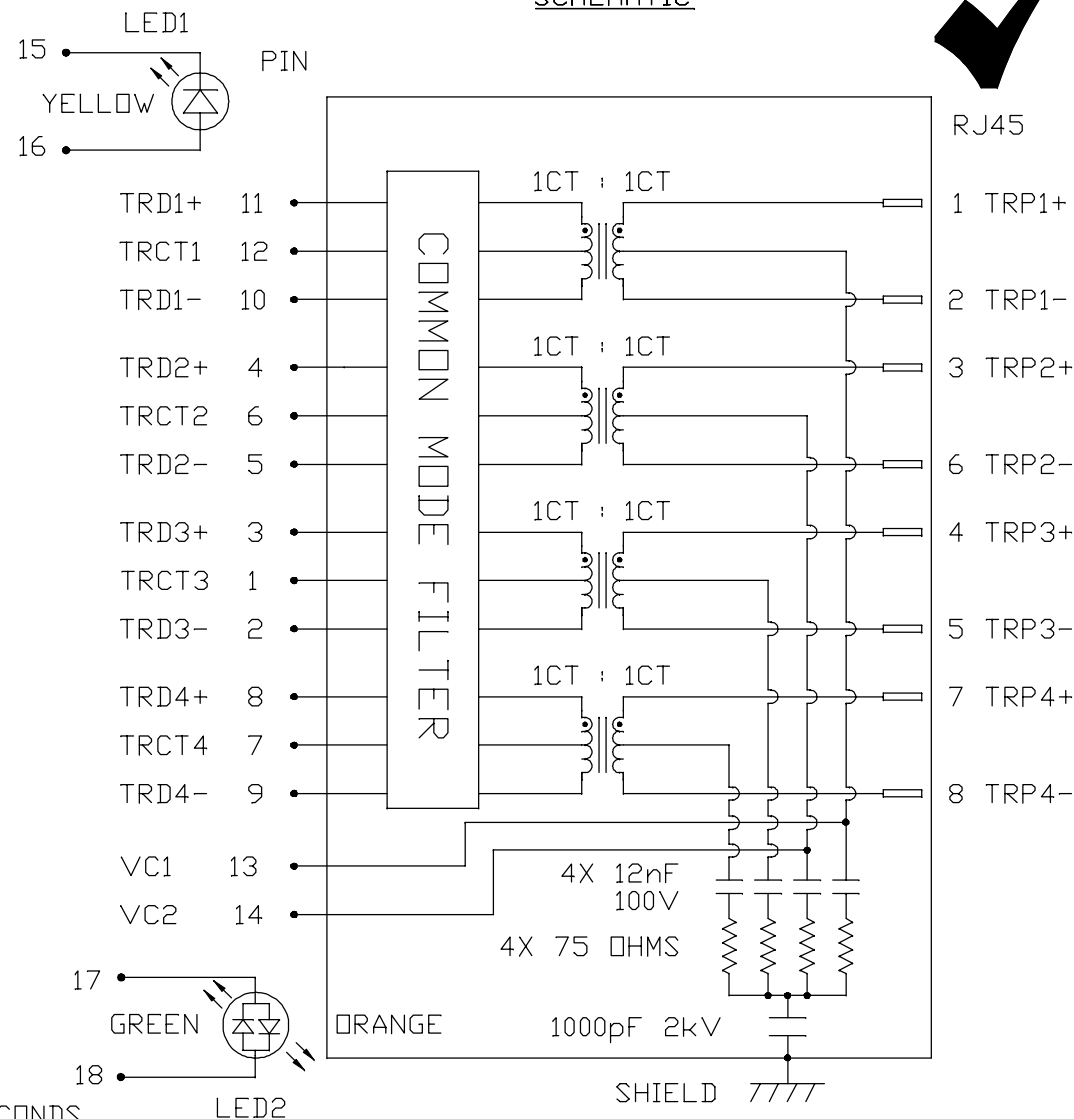
BALANCED DC LINE CURRENT 350 mA MAX. @ 57 VDC CONTINUOUS

500 mA MAX. @ 57 VDC FOR 200 MILLISECONDS

OPERATING TEMPERATURE: 0°C TO +70°C.

#### SCHEMATIC

RoHS



REV. : E

PAGE : 2

ORIGINATED BY  
CHOW WANCHUNG  
DATE 2016-08-11

DRAWN BY  
SKY YOU  
DATE 2016-08-11

TITLE  
gigabit MagJack®  
VOIP  
0826-1X1T-80-F  
PATENTED

PART NO. / DRAWING NO.

08261X1T80-F

FILE NAME

08261X1T80-F\_E.DWG

STANDARD DIM.  
TOL. IN INCH

.X

.XX

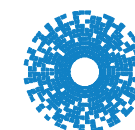
.XXX

[ ] METRIC DIM.  
AS REF.

UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

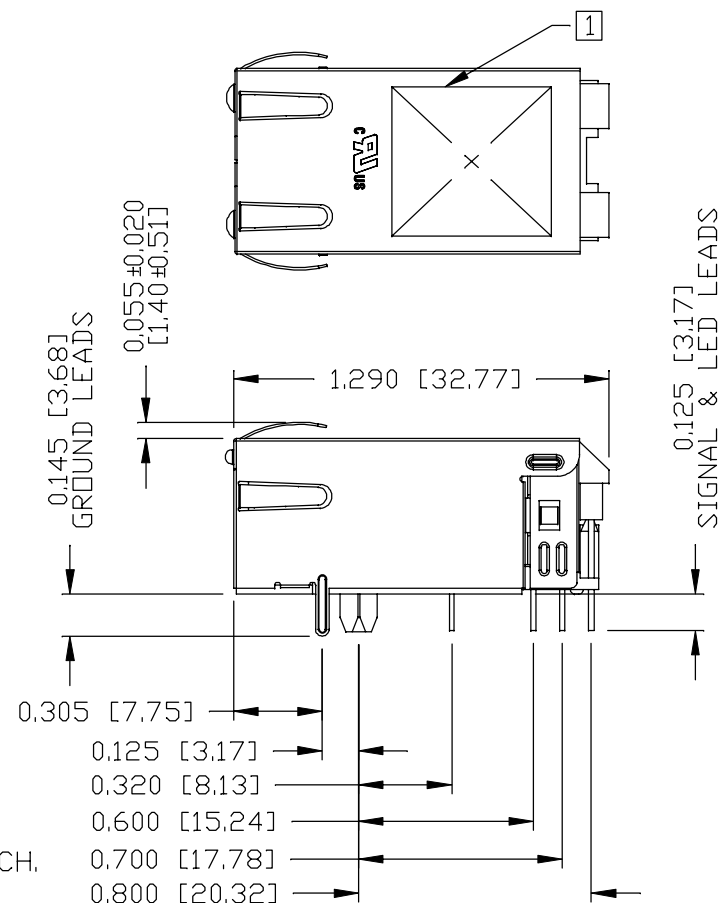
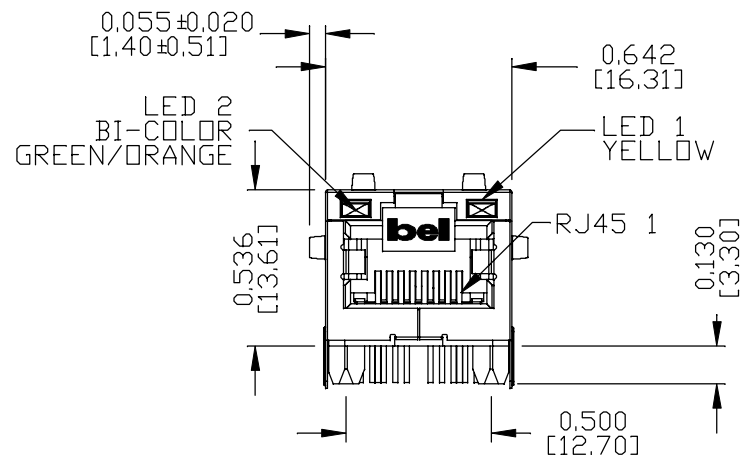


**bel** MAGNETIC SOLUTIONS  
a bel group

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

RoHS



### 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.

OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.016 INCH 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.




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 JESSE LI DATE 2016-08-11	TITLE  gigabit MagJack® VOIP 0826-1X1T-80-F PATENTED	PART NO. / DRAWING NO.  08261X1T80-F	STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.	
DRAWN BY JOLLY LUO DATE 2016-08-11		FILE NAME  08261X1T80-F_E.DWG	.X		UNIT : INCH [mm]	
			.XX		SCALE : N/A	
			.XXX	±0.010		SIZE : A4
		<div><div><b>bel</b> a bel group</div><div><b>MAGNETIC SOLUTIONS</b></div></div>				

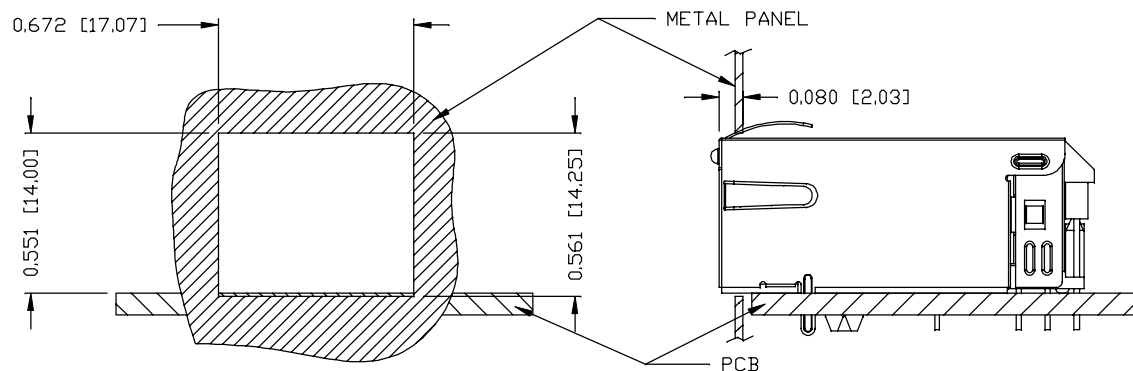


THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS



# 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. : E PAGE : 5

ORIGINATED BY  
JESSE LI  
DATE 2016-08-11

DRAWN BY  
JOLLY LUO  
DATE 2016-08-11

TITLE  
gigabit MagJack®  
VOIP  
0826-1X1T-80-F  
PATENTED

PART NO. / DRAWING NO.  
08261X1T80-F

FILE NAME  
08261X1T80-F\_E.DWG

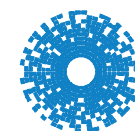
STANDARD DIM.  
TOL. IN INCH

.X  
.XX  
.XXX

±0.004

[ ] METRIC DIM.  
AS REF.

UNIT : INCH [mm]  
SCALE : N/A  
SIZE : A4



**bel** MAGNETIC  
SOLUTIONS  
a bel group