

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



LED1 POLARITY			LED2 POLARITY		
PIN 12	PIN 13	COLOR	PIN 14	PIN 15	COLOR
-	+	GREEN	-	+	GREEN
+	-	YELLOW			

## ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO 1CT : 1CT  $\pm 2\%$ 

OCL @ 100kHz/100mVRMS

8mA DC BIAS 350 $\mu$ H MIN.

INSERTION LOSS

100KHz TO 100MHz -1.5 dB MAX.

RETURN LOSS (MIN.)

2MHz-30MHz -16 dB MIN.

60MHz-80MHz -10 dB MIN.

CROSS TALK

100KHz - 100MHz -30 dB MIN.

HIPOT (ISOLATION VOLTAGE)

2250 VDC

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

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

500mA MAX. @ 57 VDC FOR 200 MILLSECONDS

## LED 1

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

IF=20mA YELLOW 2.1V TYP.

 $\lambda$  (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

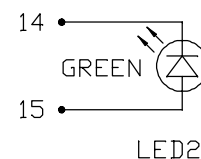
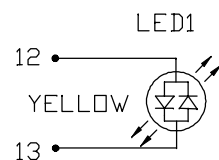
IF=20mA YELLOW 590nm TYP.

## LED 2

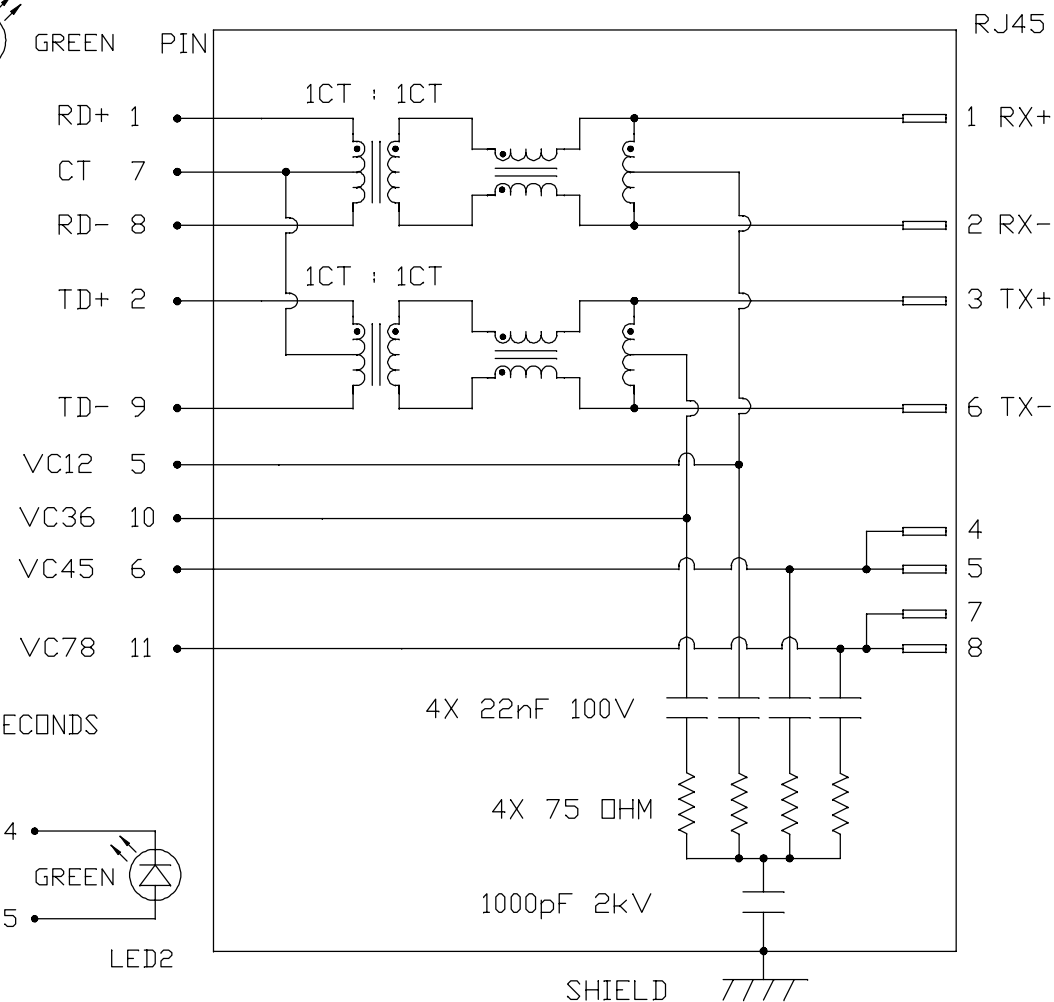
VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

 $\lambda$  (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

OPERATING TEMPERATURE: 0°C TO +70°C.



## SCHEMATIC



ORIGINATED BY  
CHOW WANCHUNG  
DATE 2016-08-11

## TITLE

10/100 MagJack®  
PoE  
0826-1L1T-57-F

## PART NO. / DRAWING NO.

08261L1T57-F

## FILE NAME

08261L1T57-F\_F.DWG

STANDARD DIM.  
TOL. IN INCH

.X

.XX

.XXX

[ ] METRIC DIM.  
AS REF.

UNIT : INCH [mm]

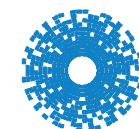
SCALE : N/A



SIZE : A4

REV. : F

PAGE : 2



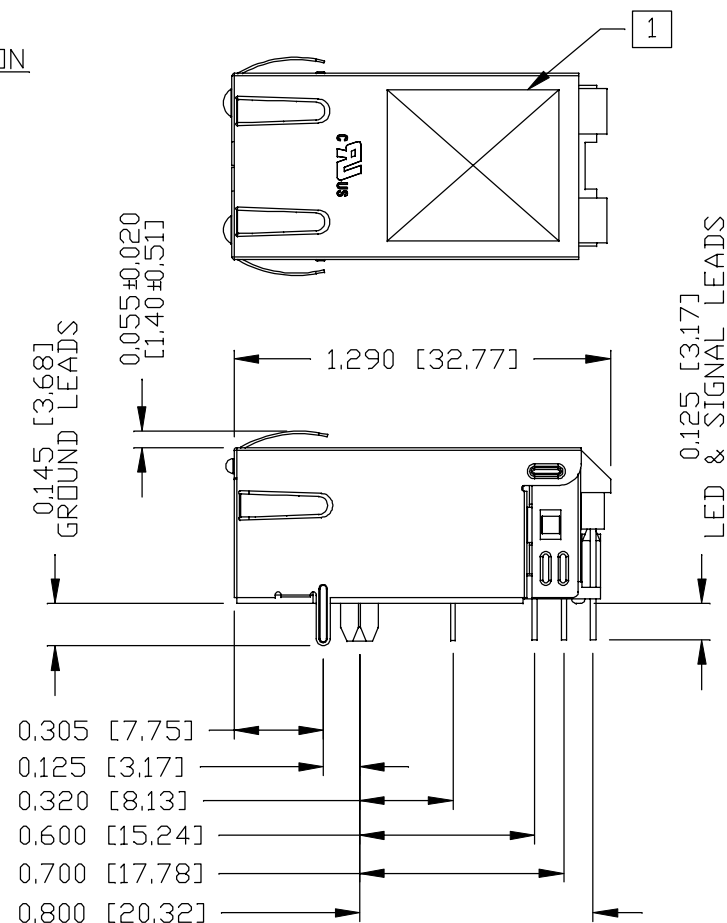
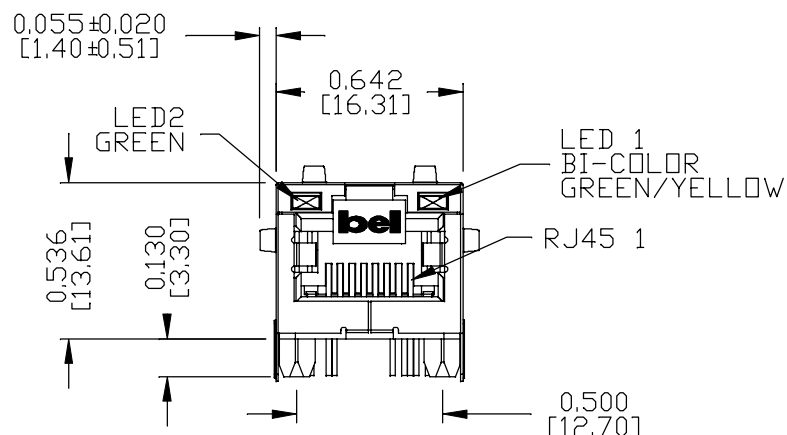
**bel**  
a bel group

**MAGNETIC  
SOLUTIONS**

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 0.018 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, AND DATE CODE.

2. THE PRODUCT IS RoHS COMPLIANT.

3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

4. 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

DRAWN BY  
JOLLY LUO  
DATE 2016-08-11

TITLE  
10/100 MagJack®  
PoE  
0826-1L1T-57-F

PART NO. / DRAWING NO.  
08261L1T57-F

FILE NAME  
08261L1T57-F\_F.DWG

STANDARD DIM.  
TOL. IN INCH

.X

.XX

.XXX

[ ] METRIC DIM.  
AS REF.

UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

REV. : F

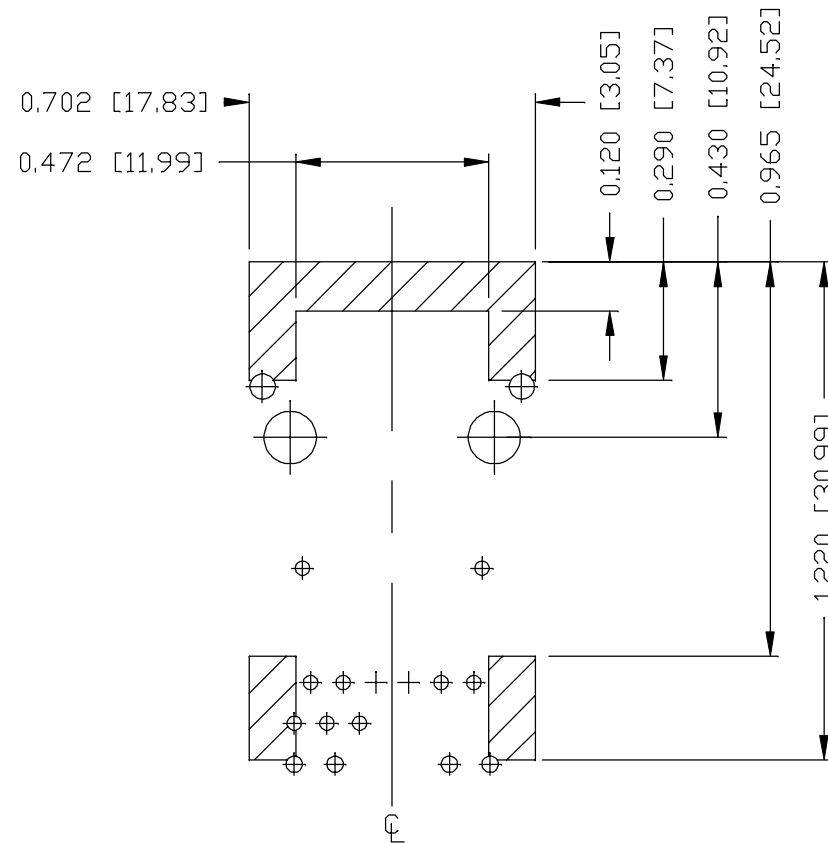
PAGE : 3



**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.

RoHS



### NOTES

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

ORIGINATED BY  
JESSE LI  
DATE 2016-08-11  
DRAWN BY  
JOLLY LUO  
DATE 2016-08-11

TITLE  
10/100 MagJack®  
PoE  
0826-1L1T-57-F

PART NO. / DRAWING NO.  
08261L1T57-F  
FILE NAME  
08261L1T57-F\_F.DWG

STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.
.X		UNIT : INCH [mm]
.XX		SCALE : N/A
.XXX	±0.004	SIZE : A4

REV. : F	PAGE : 4
----------	----------

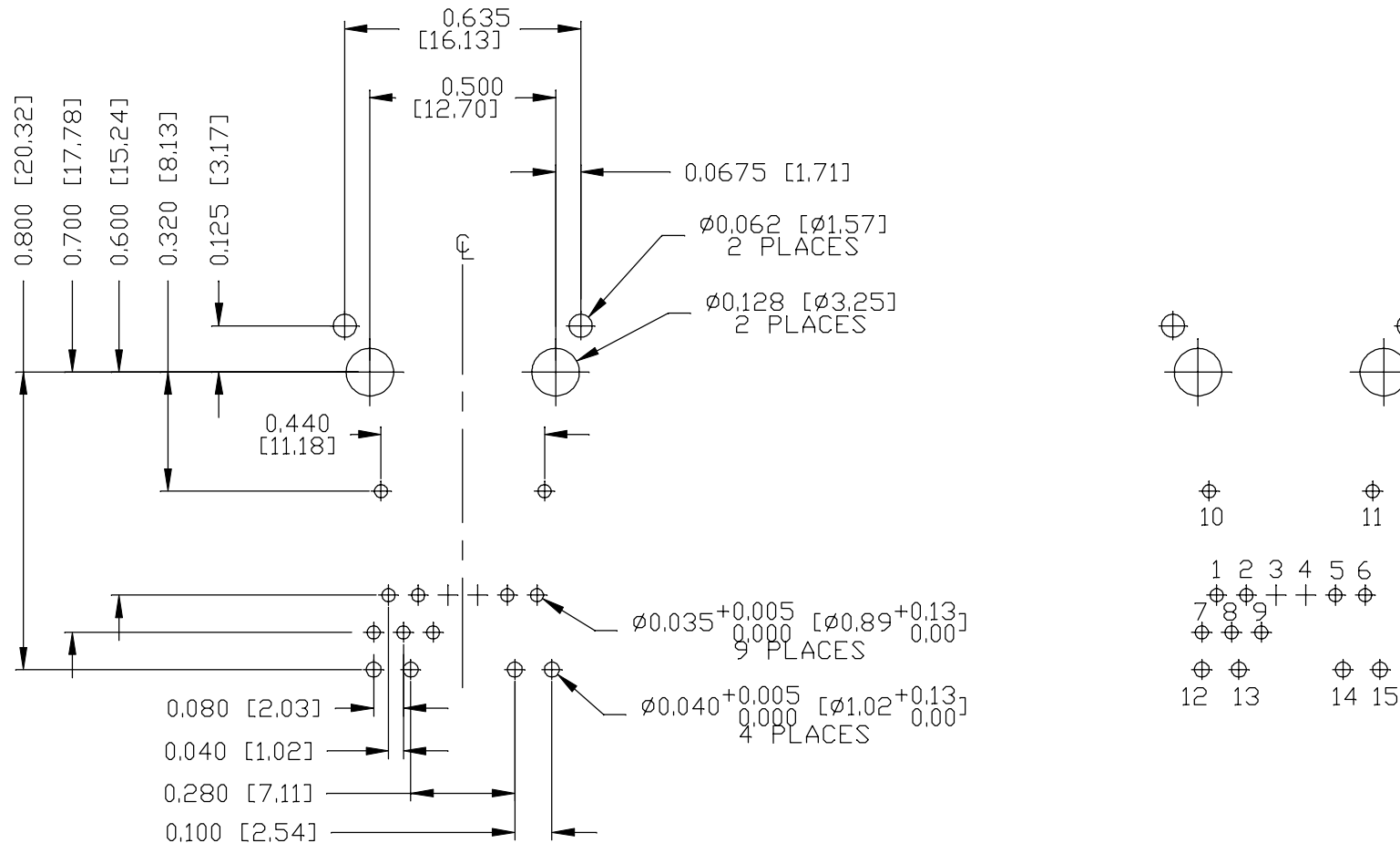


**bel** MAGNETIC SOLUTIONS  
a bel group

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.

**RoHS**

RECOMMENDED PCB FOOTPRINT  
COMPONENT SIDE VIEW



ORIGINATED BY  
JESSE LI  
DATE 2016-08-11

DRAWN BY  
JOLLY LUO  
DATE 2016-08-11

TITLE  
10/100 MagJack®  
PoE  
0826-1L1T-57-F

PART NO. / DRAWING NO.  
08261L1T57-F

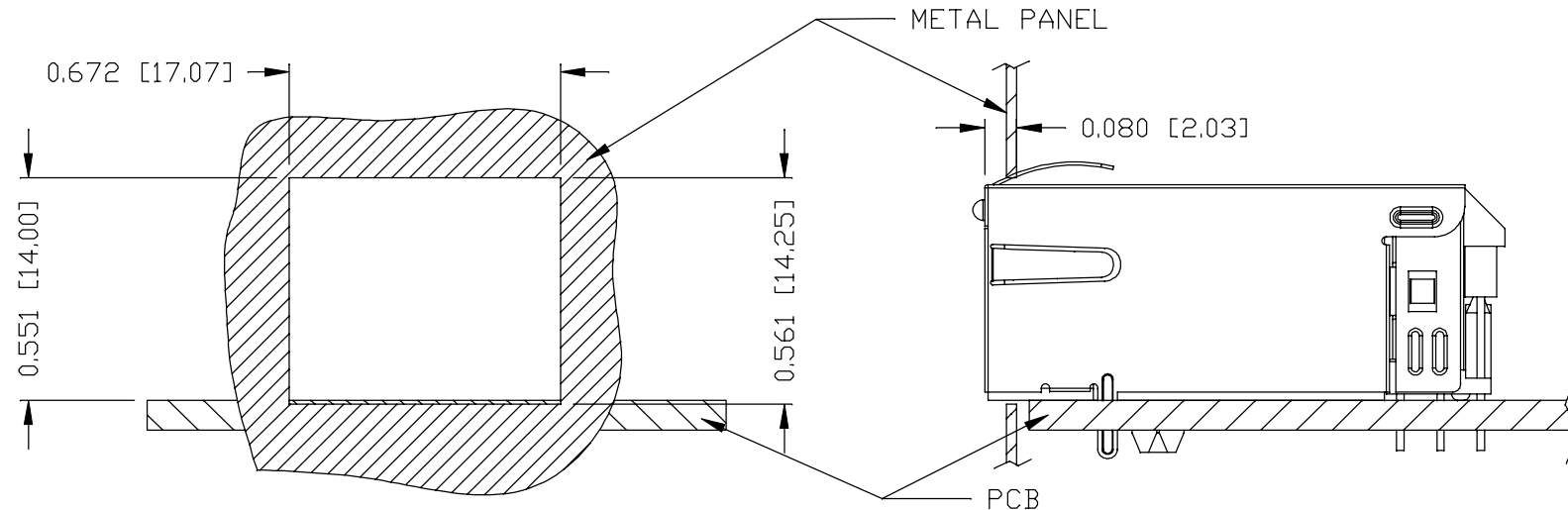
FILE NAME  
08261L1T57-F\_F.DWG

STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.	
.X		UNIT : INCH [mm]	
.XX		SCALE : N/A	
.XXX	±0.004	SIZE : A4	

REV. : F PAGE : 5



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 OPENINGNOTE:

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. : F PAGE : 6

ORIGINATED BY  
JESSE LI  
DATE 2016-08-11

DRAWN BY  
JOLLY LUO  
DATE 2016-08-11

TITLE  
10/100 MagJack®  
PoE  
0826-1L1T-57-F

PART NO. / DRAWING NO.  
08261L1T57-F

FILE NAME  
08261L1T57-F\_F.DWG

STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.
.X		UNIT : INCH [mm]
.XX		SCALE : N/A
.XXX	±0.004	SIZE : A4

