

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 13	PIN 14	COLOR	PIN 15	PIN 16	COLOR
-	+	GREEN	+	-	YELLOW
			-	+	GREEN

#### ELECTRICAL CHARACTERISTICS @ 25°C

##### URNS RATIO

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

OCL @ 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

100kHz - 100MHz -33+20LOG(f/100MHz)dB 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

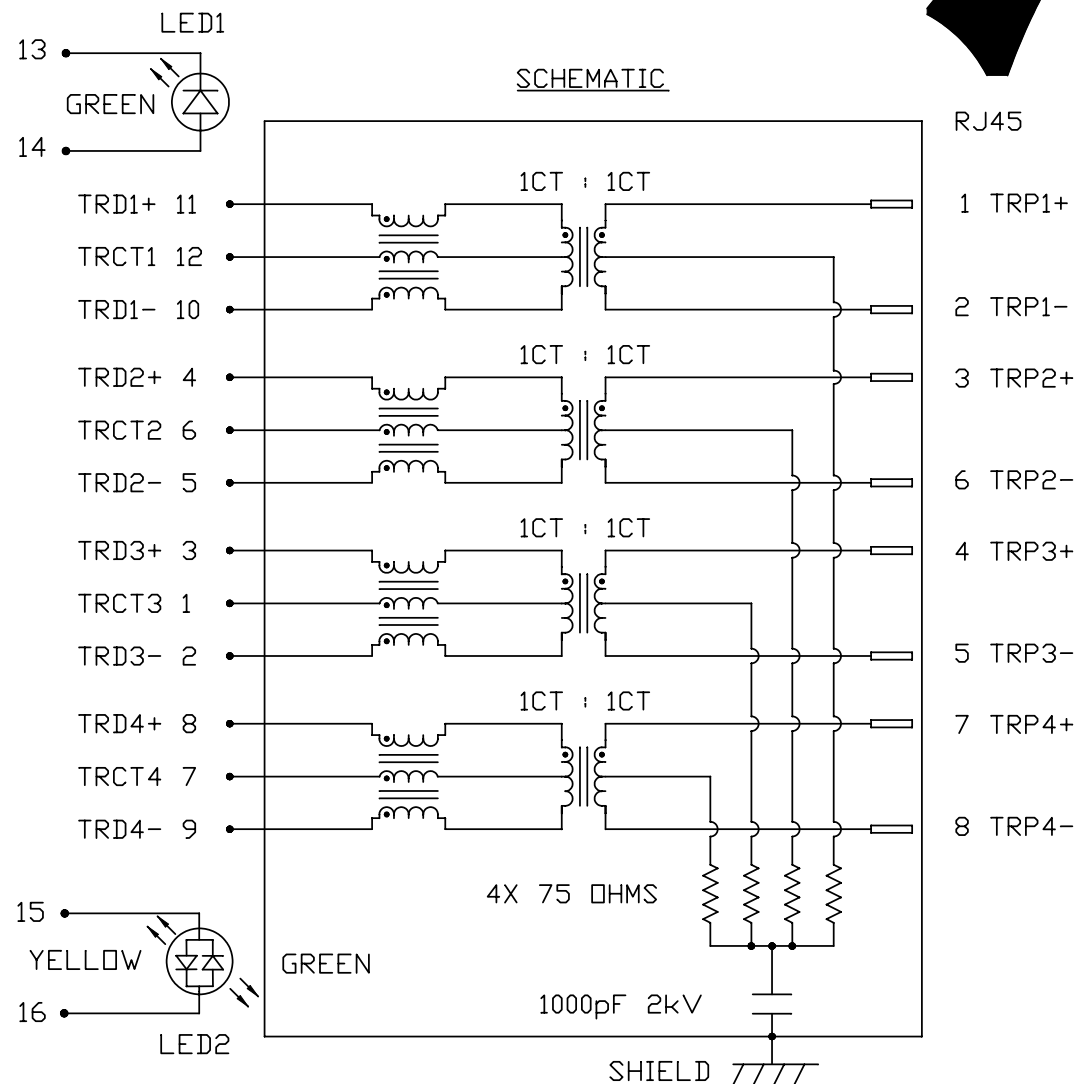
IEEE 802.3 ISOLATION REQUIREMENTS.

##### LED 1

VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN	565nm TYP.

##### LED 2

VF (FORWARD VOLTAGE)	IF=20mA	YELLOW	2.1V TYP.
		GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	590nm TYP.
		GREEN	565nm TYP.



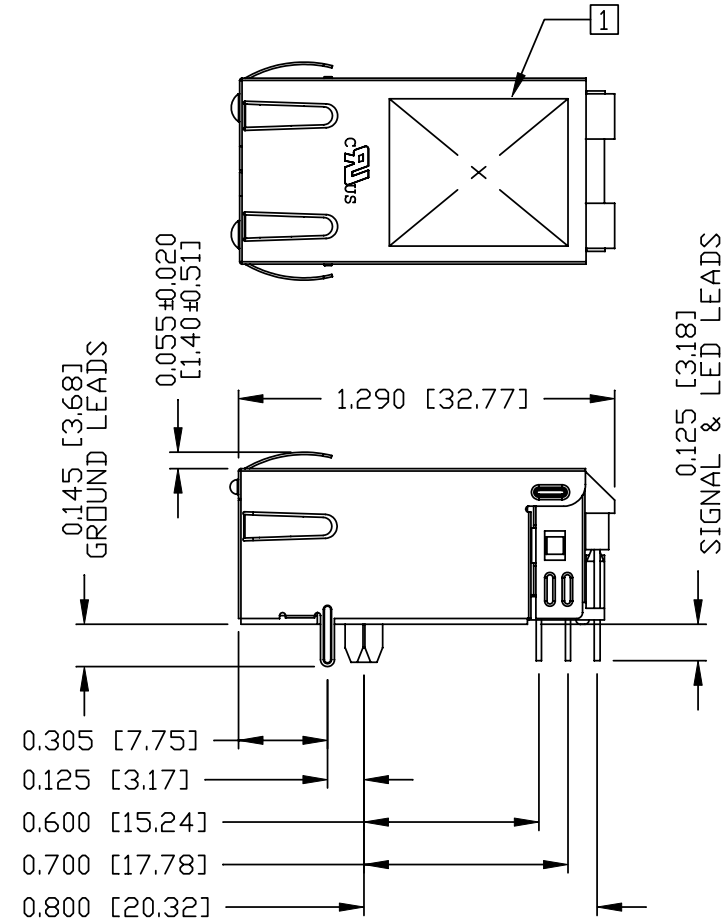
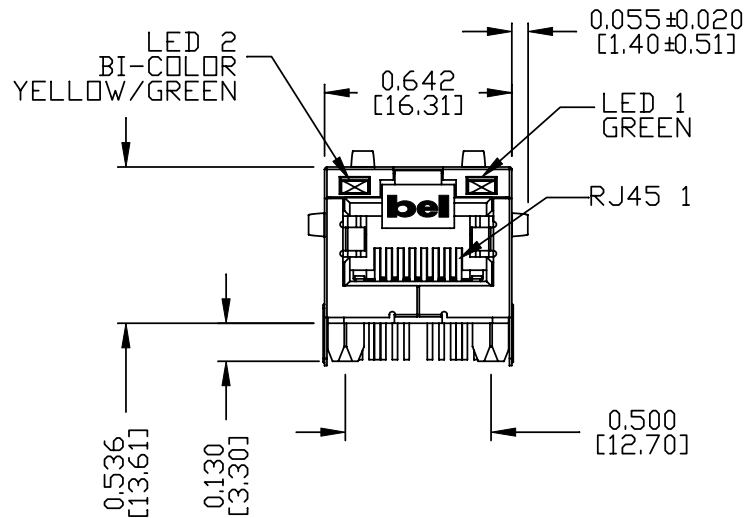
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[ ] METRIC DIM. AS REFERENCE
CHOW WANCHUNG	2012-08-09	gigabit MagJack® (8 cores, Tab Up)	08261K1T43-F	TOL. IN INCH	UNIT : INCH [mm] REV. : D
DRAWN BY	DATE	FILE NAME			
TAN QIGUANG	2012-08-09	0826-1K1T-43-F PATENTED	08261K1T43-F_D.DWG	.X .XX .XXX	SCALE : N/A SIZE : A4 PAGE : 2



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  
FLAMMABILITY RATING UL 94V-0
- CONTACTS: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.
- OUTPUT PINS: TIN-COATED COPPER WIRE, 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.

1. THE PRODUCT IS RoHS COMPLIANT.
2. THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE  
U.S. PAT. 5,736,910 AND U.S. PAT. 7,123,117.
3. THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE  
U.S. PAT. 5,736,910 AND U.S. PAT. 7,123,117.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE
ANTON LIAO	2012-08-09	gigabit MagJack® (8 cores, Tab Up)	08261K1T43-F	.X	UNIT : INCH [mm]
DRAWN BY	DATE	0826-1K1T-43-F PATENTED	FILE NAME	.XX	SCALE : N/A
HE ZHEN	2012-08-09		08261K1T43-F_D.DWG	.XXX	±0.010
					REV. : D
					SIZE : A4
					PAGE : 3

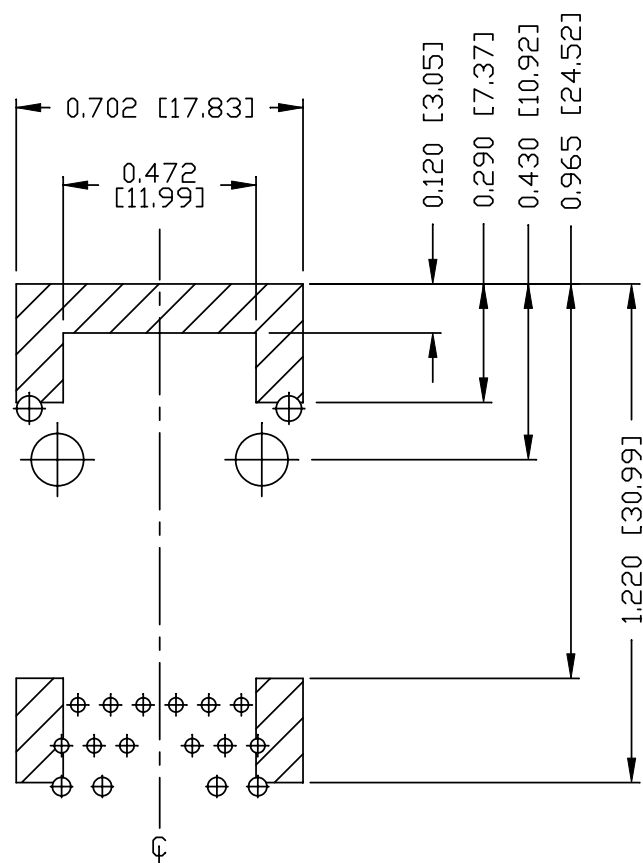


THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS

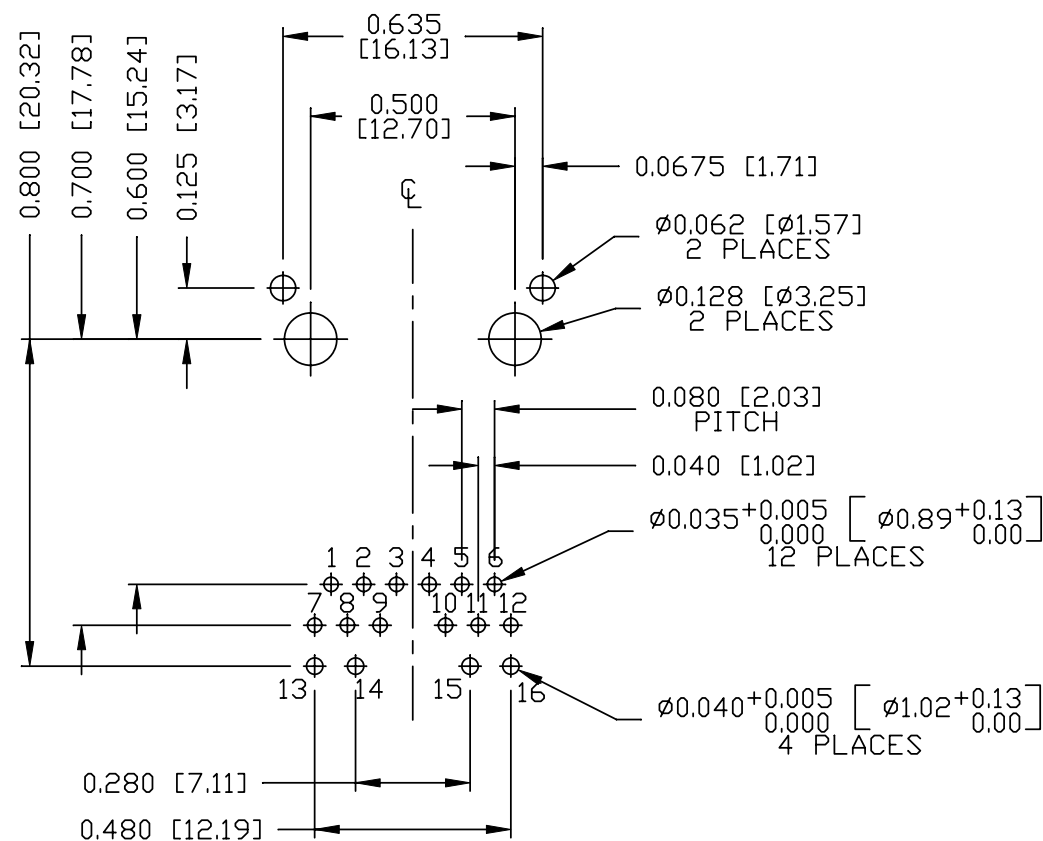


RECOMMENDED PCB FOOTPRINT  
COMPONENT SIDE VIEW



NOTES

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

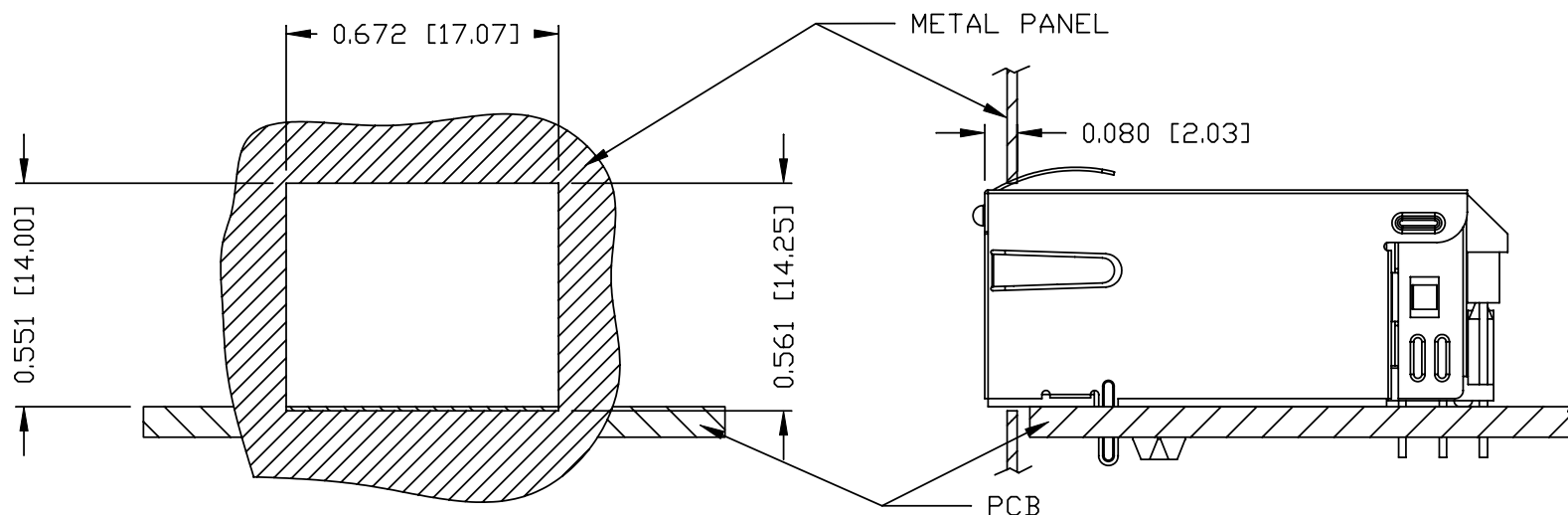


ORIGINATED BY ANTON LIAO	DATE 2012-08-09	TITLE gigabit MagJack® (8 core, Tab Up) 0826-1K1T-43-F PATENTED	PART NO. / DRAWING NO. 08261K1T43-F	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.004	[ ] METRIC DIM. AS REFERENCE UNIT : INCH [mm] SCALE : N/A REV. : D SIZE : A4 PAGE : 4	 COMPONENTS OR A CONNECTED PLANET
DRAWN BY HE ZHEN	DATE 2012-08-09		FILE NAME 08261K1T43-F_D.DWG			

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.

## SUGGESTED PANEL OPENING

RoHS



### 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)

ORIGINATED BY	DATE	TITLE  gigabit MagJack® (8 core, Tab Up) 0826-1K1T-43-F PATENTED	PART NO. / DRAWING NO.	STANDARD DIM.		[ ] METRIC DIM. AS REFERENCE		<div> COMPONENTS FOR A CONNECTED PLANET</div>
ANTON LIAO	2012-08-09 <td>08261K1T43-F</td> <th colspan="2">TOL. IN INCH</th> <th>UNIT : INCH [mm]</th> <th>REV. : D</th>		08261K1T43-F	TOL. IN INCH		UNIT : INCH [mm]	REV. : D	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
HE ZHEN	2012-08-09		08261K1T43-F_D.DWG	.XX			PAGE : 5	
				.XXX	±0.004			



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bel:

[0826-1K1T-43-F](#)