

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
2002/95/EC



LED1 POLARITY			LED2 POLARITY		
PIN 13	PIN 14	COLOR	PIN 11	PIN 12	COLOR
+	-	YELLOW	+	-	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

(P3-P2):(J2-J1)	1CT : 1CT ±3%
(P5-P4):(J6-J3)	1CT : 1CT ±3%
(P7-P6):(J5-J4)	1CT : 1CT ±3%
(P9-P8):(J8-J7)	1CT : 1CT ±3%

DCL @ 100kHz/100mVRMS

8mA DC BIAS 350μH MIN.

INS. LOSS

100KHz TO 100MHz -1.1 dB MAX

RET. LOSS (MIN)

1MHz-30MHz -18 dB MIN.
30MHz-80MHz -12+20LOG(f/80MHz) dB

CROSS TALK:

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

CM TO CM REJ

1MHz - 100MHz -35 dB MIN

CM TO DM REJ

100kHz - 100MHz -35 dB MIN

HIPOT (Isolation Voltage):

1500 Vrms

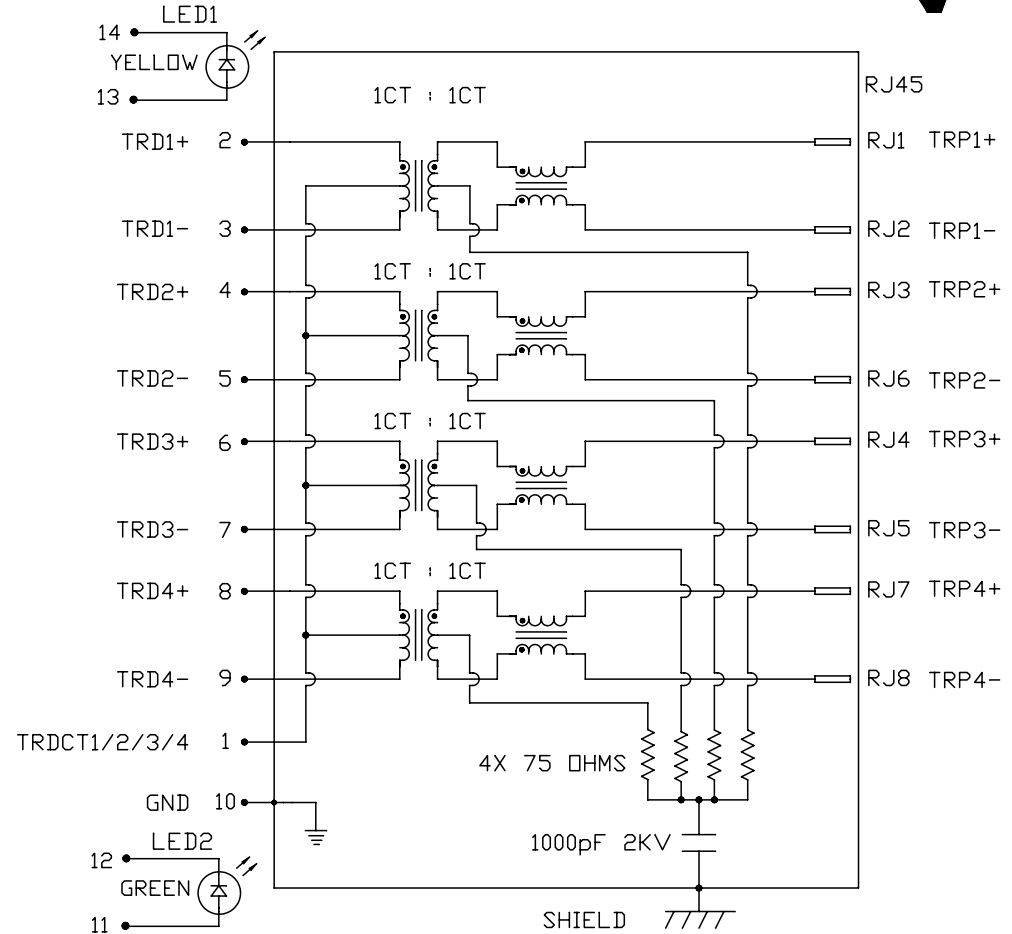
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

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.
λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.



ORIGINATED BY CHOW WANCHUNG
DATE 03-10-10

TITLE Gigabit MagJack®
WITH LED
PATENTED

PART NO. / DRAWING NO. SI-61012-F

FILE NAME SI-61012-F_A.DWG

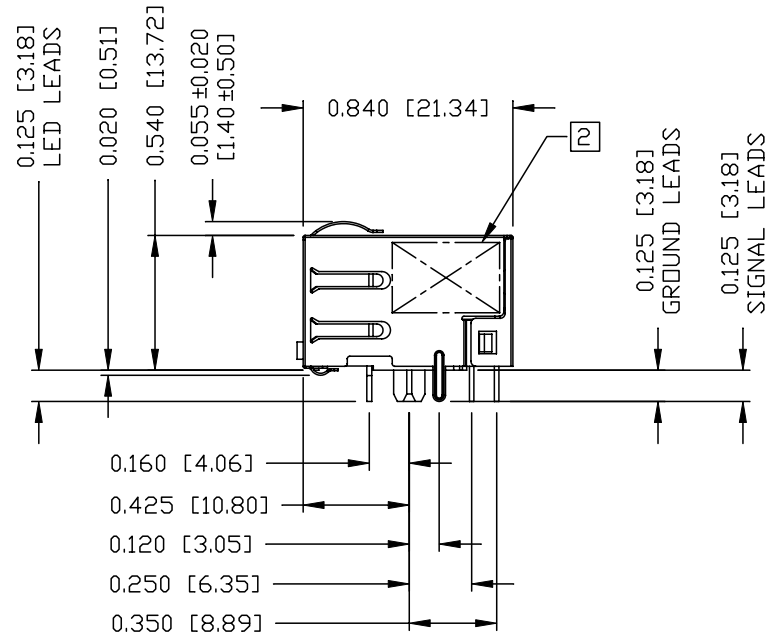
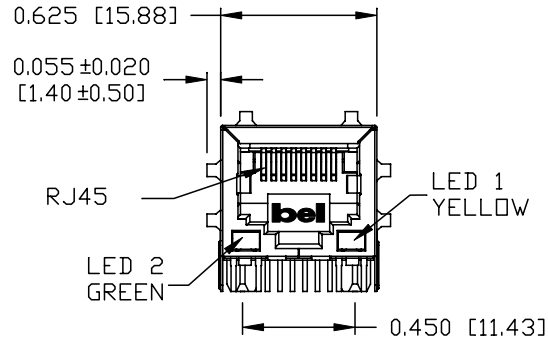
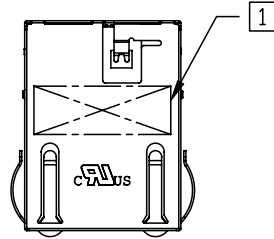
STANDARD DIM. TOL. IN INCH	
.X	
.XX	
.XXX	

[] METRIC DIM. AS REFERENCE	
UNIT : INCH [mm]	REV. : A
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.

RoHS
2002/95/EC



NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PBT
FLAMMABILITY RATING UL 94V-0
- CONTACTS PLATING: 50 MICRO-INCH HARD GOLD PLATING
- 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 PART NUMBER(SI-61012-F), DATE CODE AND PATENTED.

② MARK PART WITH MFG LOGO, MFG NAME.

3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS

4. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

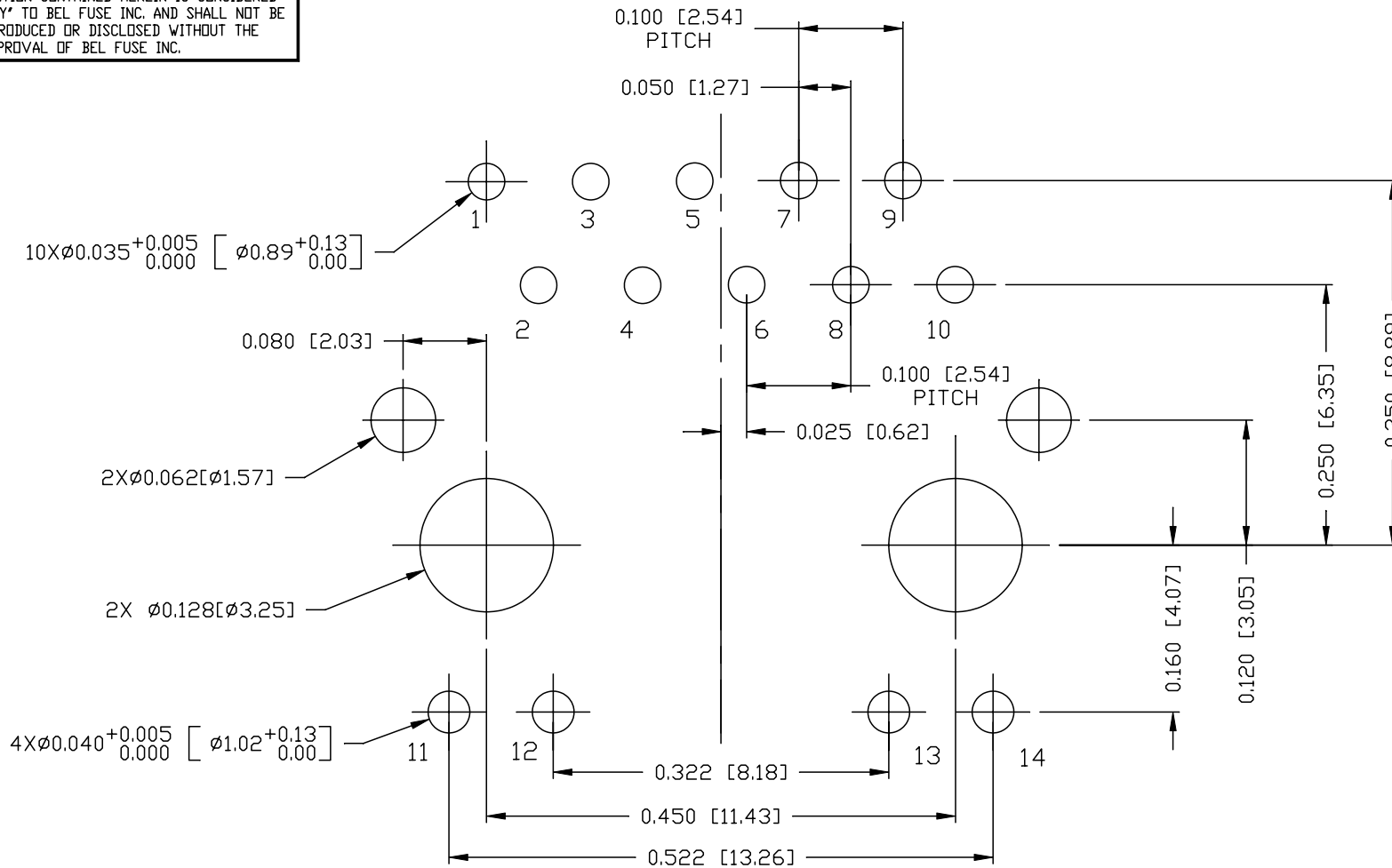
c UL RECOGNIZED - FILE #E132408.

5. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S. PAT. 5,736,910.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	 COMPONENTS OF A CONNECTED PLANET	
CHEN BILL	03-10-10	Gigabit MagJack® WITH LED PATENTED	SI-61012-F	.X	UNIT : INCH [mm]		REV. : A
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A		SIZE : A4
CHRIS NG	03-10-10	SI-61012-F_A.DWG	.XXX	±0.010			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
2002/95/EC



RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE VIEW

ORIGINATED BY	DATE	TITLE
CHEN BILL	03-10-10	Gigabit MagJack® WITH LED PATENTED
DRAWN BY	DATE	
CHRIS NG	03-10-10	

PART NO. / DRAWING NO.	SI-61012-F
FILE NAME	SI-61012-F_A.DWG

STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
.X		UNIT : INCH [mm]	REV. : A
.XX		SCALE : N/A	SIZE : A4
.XXX	±0.004		PAGE : 4

[] METRIC DIM. AS REFERENCE	
UNIT : INCH [mm]	REV. : A
SCALE : N/A	SIZE : A4
	PAGE : 4

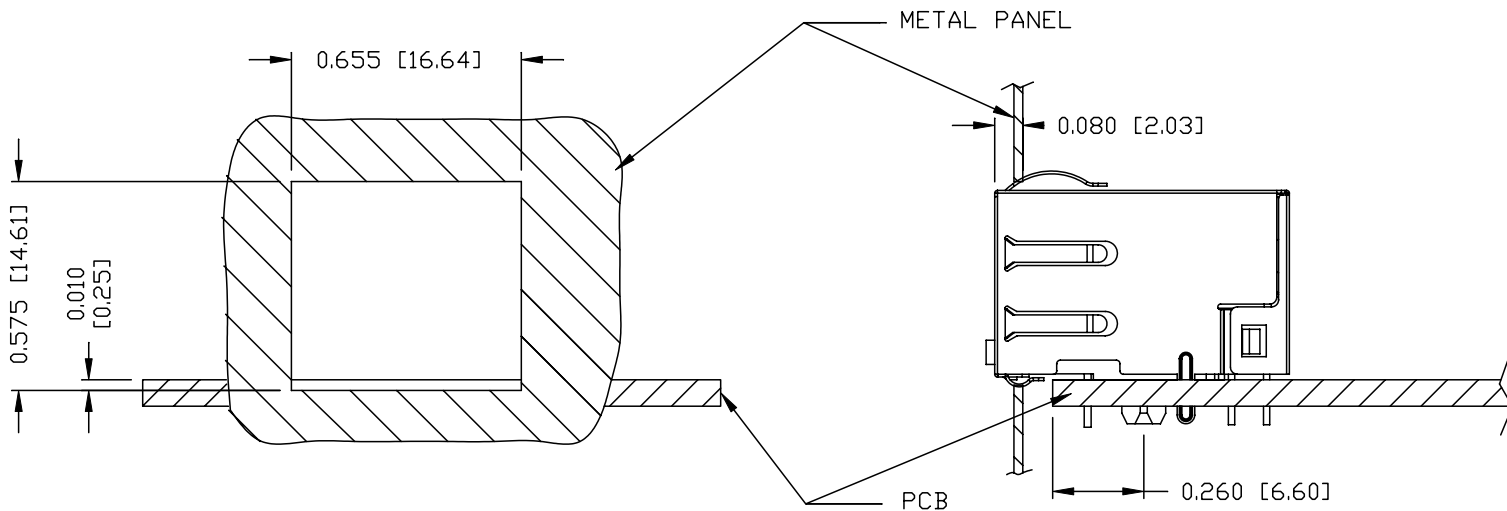


THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS
2002/95/EC



SUGGESTED PANEL OPENING



NOTES:

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-Q7 (TOP)

0200-9999-Q8 (BOTTOM)

PACKING QUANTITY : 80 PCS FINISHED GOODS PER TRAY

10 TRAYS (800 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 CHEN BILL	DATE 03-10-10	TITLE Gigabit MagJack® WITH LED PATENTED	PART NO. / DRAWING NO. SI-61012-F	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
				.X		UNIT : INCH [mm]	REV. : A
DRAWN BY CHRIS NG	DATE 03-10-10		FILE NAME SI-61012-F_A.DWG	.XX		SCALE : N/A	SIZE : A4
				.XXX	±0.004		PAGE : 5

