

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

ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

TP1	1CT : 1CT $\pm 2\%$
TP2	1CT : 1CT $\pm 2\%$
TP3	1CT : 1CT $\pm 2\%$
TP4	1CT : 1CT $\pm 2\%$
DCL @ 100kHz/100mVRMS	(0-70 Deg. C)

8mA DC BIAS

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) @ 100 Ω HMS $\pm/-15\%$

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

CM TO CM REJ

100kHz - 100MHz

CM TO DM REJ

100kHz - 100MHz

HIPOT (Isolation Voltage): 1500 Vrms / 2250 VDC

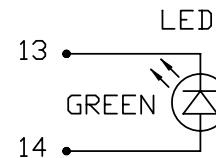
100% OF PRODUCTION TESTED TO COMPLY
WITH IEEE 802.3 ISOLATION REQUIREMENTS

LED 1

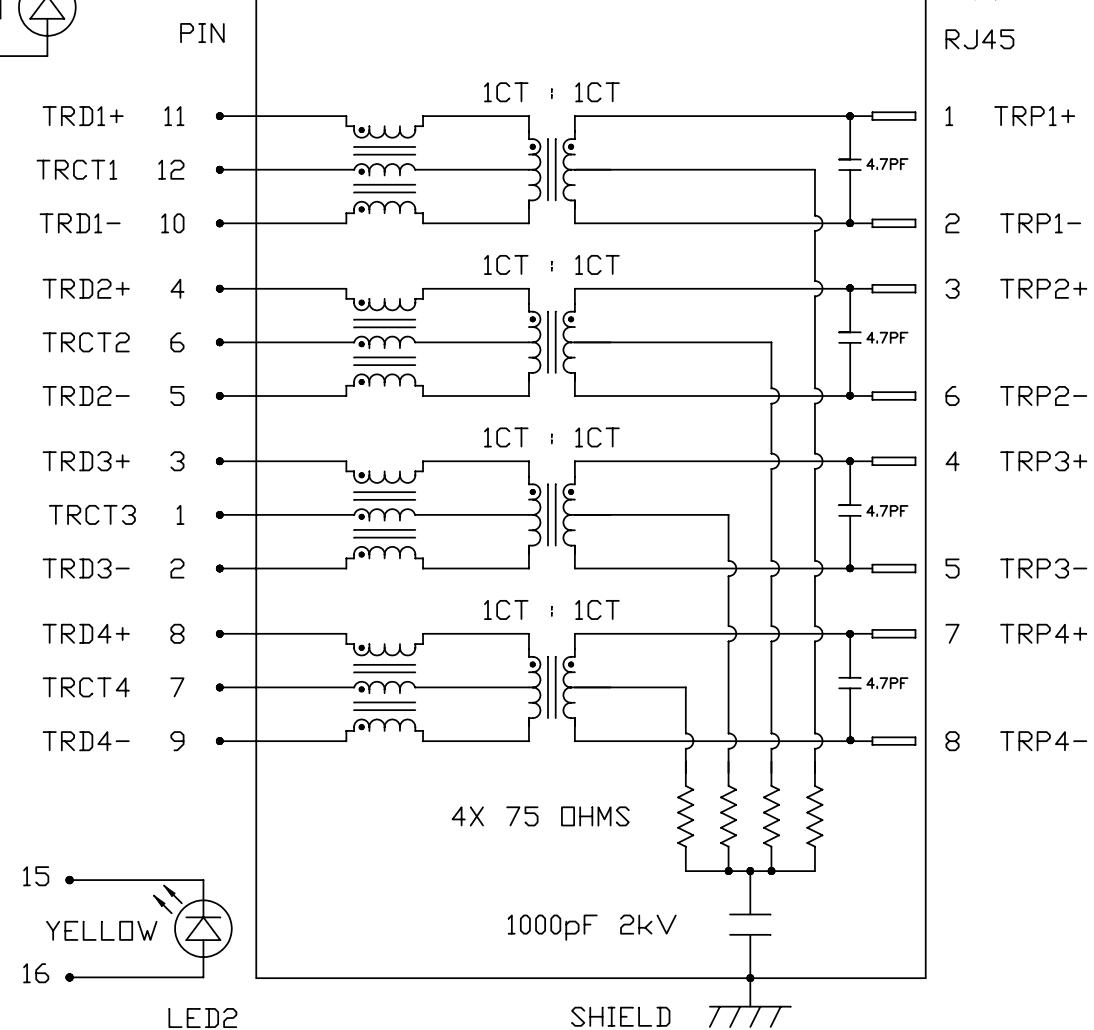
VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.

LED 2

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



SCHEMATIC



ORIGINATED BY DATE
CHOW WANCHUNG 2012-07-19

TITLE

gigabit MagJack®
(Ultra Low Profile)
PATENTED

PART NO. / DRAWING NO.
L829-1D1T-43

STANDARD DIM.
TOL. IN INCH

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

FILE NAME
L829-1D1T-43_B.DWG

.X
.XX
.XXX

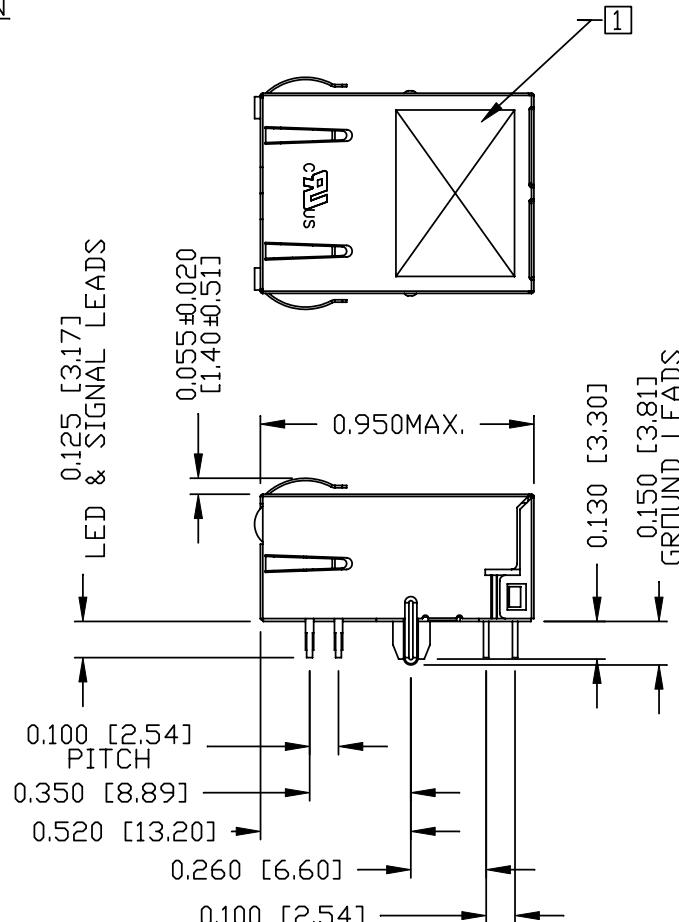
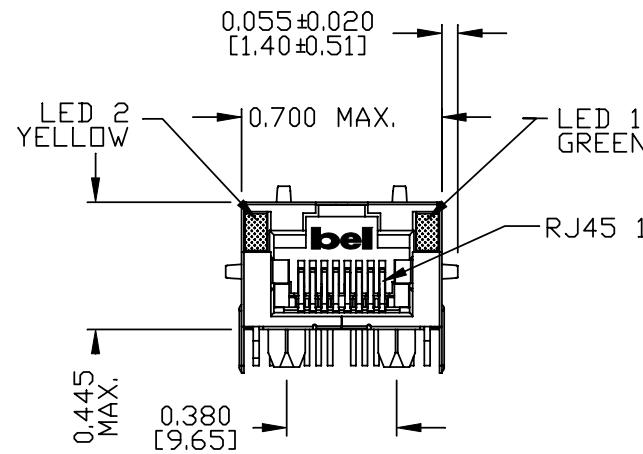
SCALE : N/A SIZE : A4
PAGE : 2

DRAWN BY DATE
TAN QIGUANG 2012-07-19

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: 30 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. USUL RECOGNIZED - FILE #E196366 AND E169987.
 2. THE PRODUCT IS RoHS COMPLIANT.
 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
 3. THE PRODUCT IS PATENT PRODUCT. THE PATENT NUMBER ARE
 U.S. PAT. 5,736,910 AND U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE		L829-1D1T-43	TOL. IN INCH	.X		
ANTON LIAO	2012-07-19	gigabit MagJack® (Ultra Low Profile)	FILE NAME	.XX		SCALE : N/A	SIZE : A4
HE ZHEN	2012-07-19	PATENTED	L829-1D1T-43_B.DWG	.XXX	±0.010	⊕	PAGE : 3

bel
 COMPONENTS FOR A
 CONNECTED PLANET

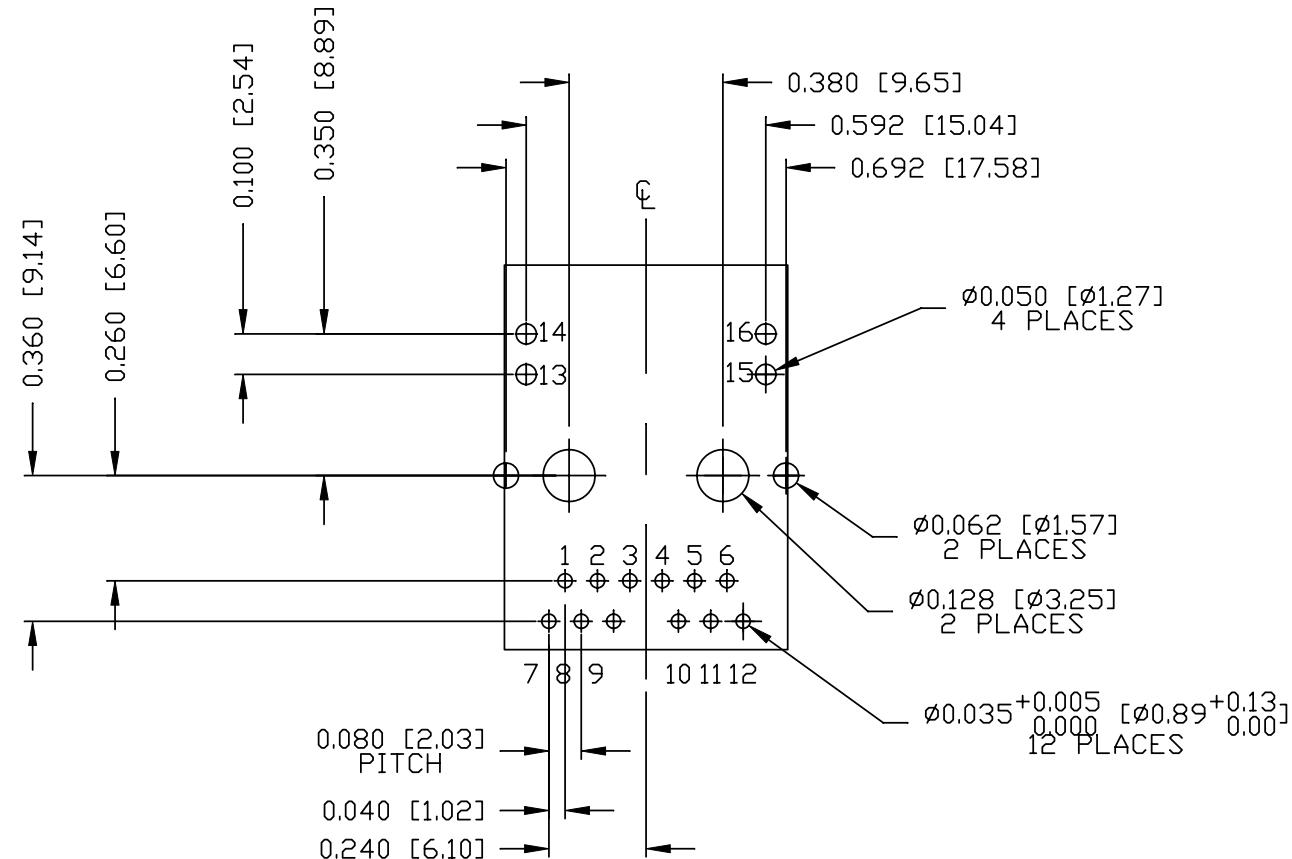
THE INFORMATION CONTAINED HEREIN IS CONSIDERED
"PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE
COPIED, REPRODUCED OR DISCLOSED WITHOUT THE
WRITTEN APPROVAL OF BEL FUSE INC.

RoHS



RECOMMENDED PCB FOOTPRINT

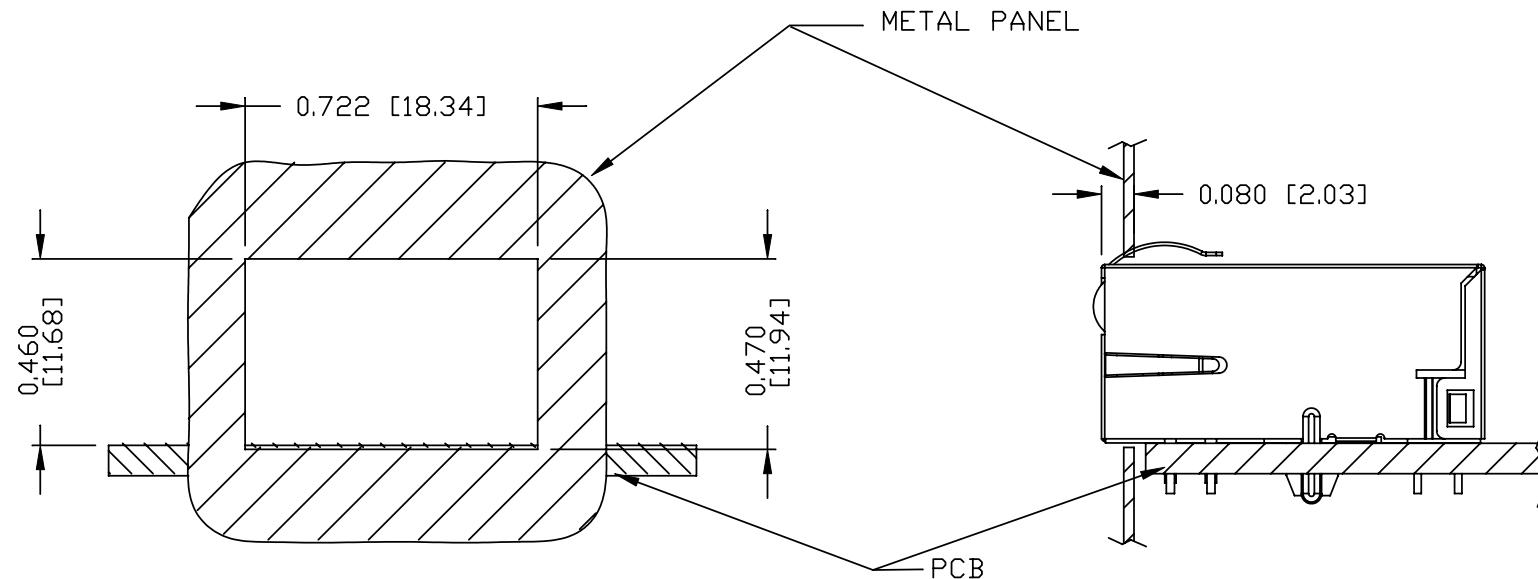
COMPONENT SIDE VIEW



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE
DRAWN BY	DATE			TOL. IN INCH	UNIT : INCH [mm]	REV. : B
ANTON LIAO	2012-07-19	gigabit MagJack® (Ultra Low Profile)	L829-1D1T-43	.X		
HE ZHEN	2012-07-19	PATENTED	L829-1D1T-43_B.DWG	.XX		SCALE : N/A
				.XXX	± 0.004	SIZE : A4
						PAGE : 4



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.

TRAY PACKING INFORMATION

PACKING TRAY : 0200-9999-E4 (TOP)

0200-9999-E5 (BOTTOM)

PACKING QUANTITY : 60 PCS FINISHED GOODS PER TRAY

11 TRAYS (660 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	PART NO. / DRAWING NO.	[] METRIC DIM. AS REFERENCE	
DRAWN BY	DATE		STANDARD DIM. TOL. IN INCH	UNIT : INCH [mm]	REV. : B
ANTON LIAO	2012-07-19	gigabit MagJack® (Ultra Low Profile)	L829-1D1T-43	.X	
HE ZHEN	2012-07-19	PATENTED	FILE NAME	.XX	
			L829-1D1T-43_B.DWG	.XXX	±0.004
				⊕	