

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 15	PIN 16	PIN 17	COLOR
-	+	YELLOW	-	+	/	ORANGE
/	/	/	/	+	-	GREEN
			-	+	-	MIXED YELLOW

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	(0-70 Deg. C)
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) @100 OHMS ±15%

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

CM TO CM REJ

100kHz - 100MHz	-30 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 REQUIREMENT

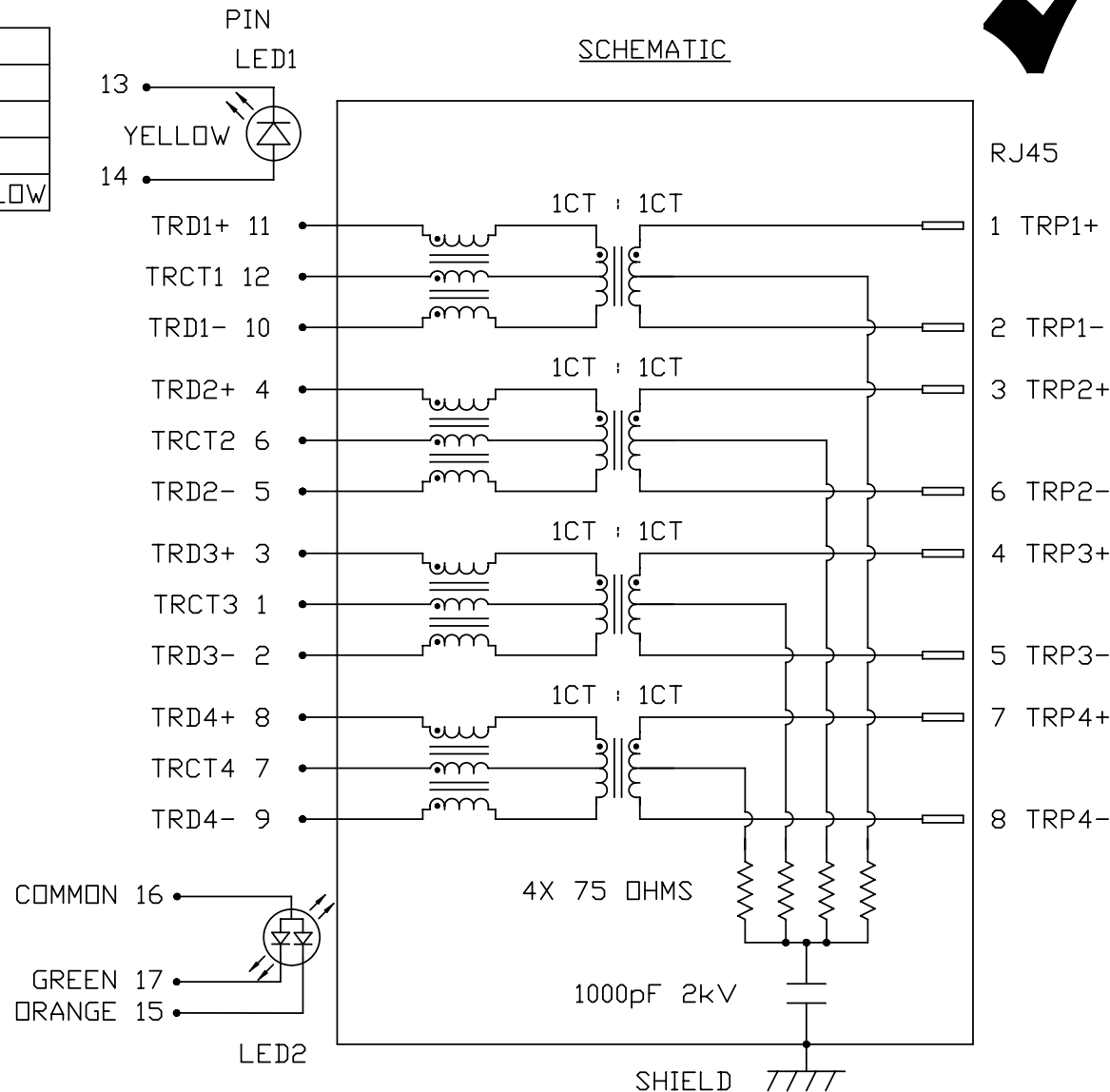
LED 1 (HI-TEMP)

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

LED 2 (HI-TEMP)

VF (FORWARD VOLTAGE)	IF=20mA YELLOW	GREEN 2.2V TYP.
	AMBER	2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA YELLOW	GREEN 570nm TYP.
	AMBER	607nm TYP.

MIXED YELLOW DOES NOT HAVE SPECIFIC WAVELENGTH.



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE
CHOW WANGCHUNG	10-13-10	gigabit MagJack® (Ultra Low Profile) PATENTED	L830-1J1T-43	TOL. IN INCH	UNIT : INCH [mm]
DRAWN BY	DATE			.X	REV. : F
LEE WEIDE	10-13-10			.XX	SCALE : N/A
			L830-1J1T-43_F.DWG	.XXX	SIZE : A4
					PAGE : 2

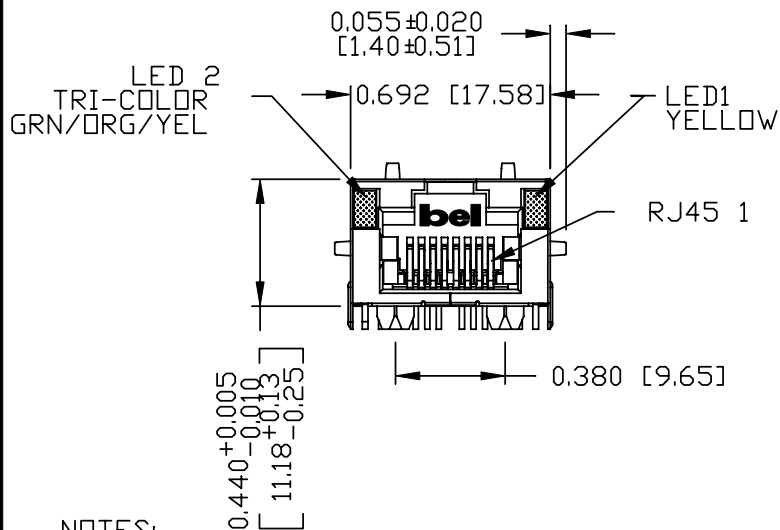
bel

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.

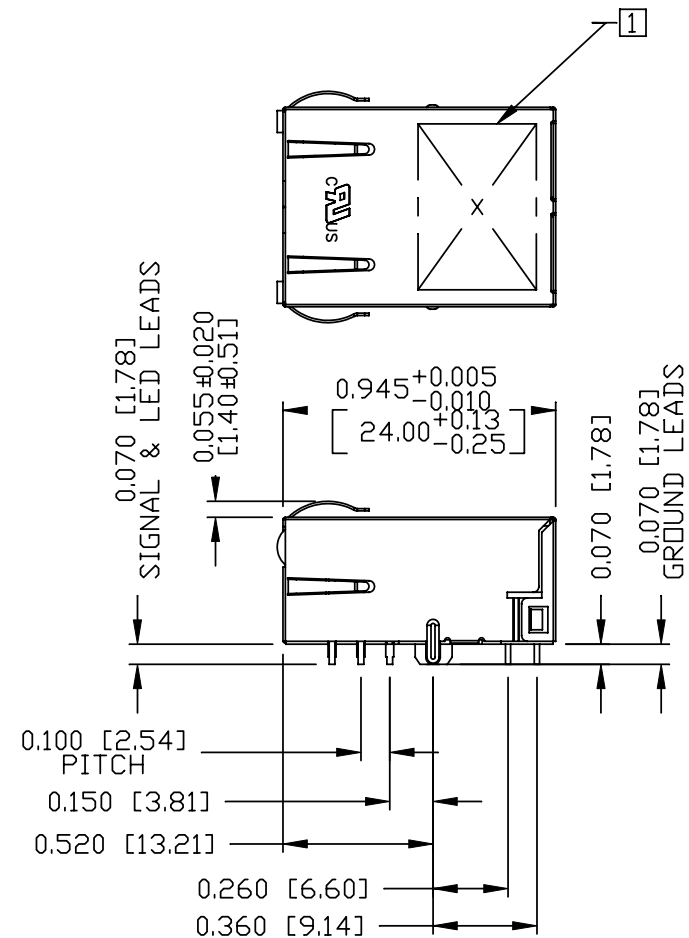
MECHANICAL SPECIFICATION

RoHS
2002/95/EC



NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PA.
FLAMMABILITY RATING UL 94V-0
CONTACTS: 30 MICRO-INCH HARD GOLD PLATING
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.
2. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.



UL USUL RECOGNIZED - FILE #E196366 AND E169987.

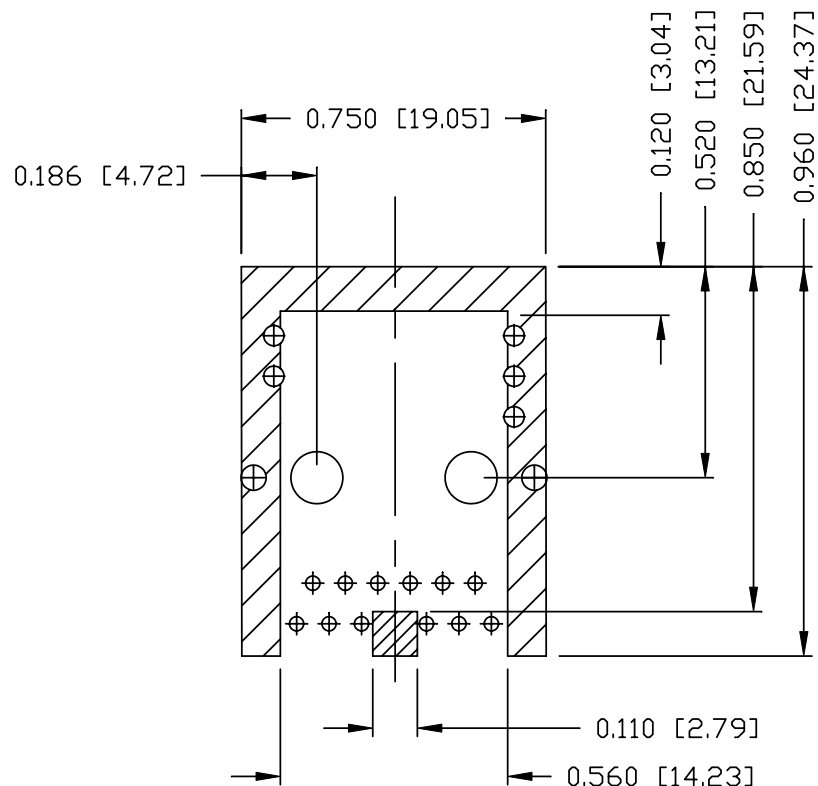
3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
PART 68 SUBPART F.
4. THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE
U.S. PAT. 5,736,910 AND U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
CHEN BILL	10-13-10	gigabit MagJack® (Ultra Low Profile) PATENTED	L830-1J1T-43 FILE NAME L830-1J1T-43_F.DWG	.X	UNIT : INCH [mm] REV. : F
DRAWN BY	DATE			.XX	SCALE : N/A SIZE : A4
XIAN JIAXIN	10-13-10			.XXX ±0.010	PAGE : 3

bel
COMPONENTS FOR A
CONNECTED
PLANET

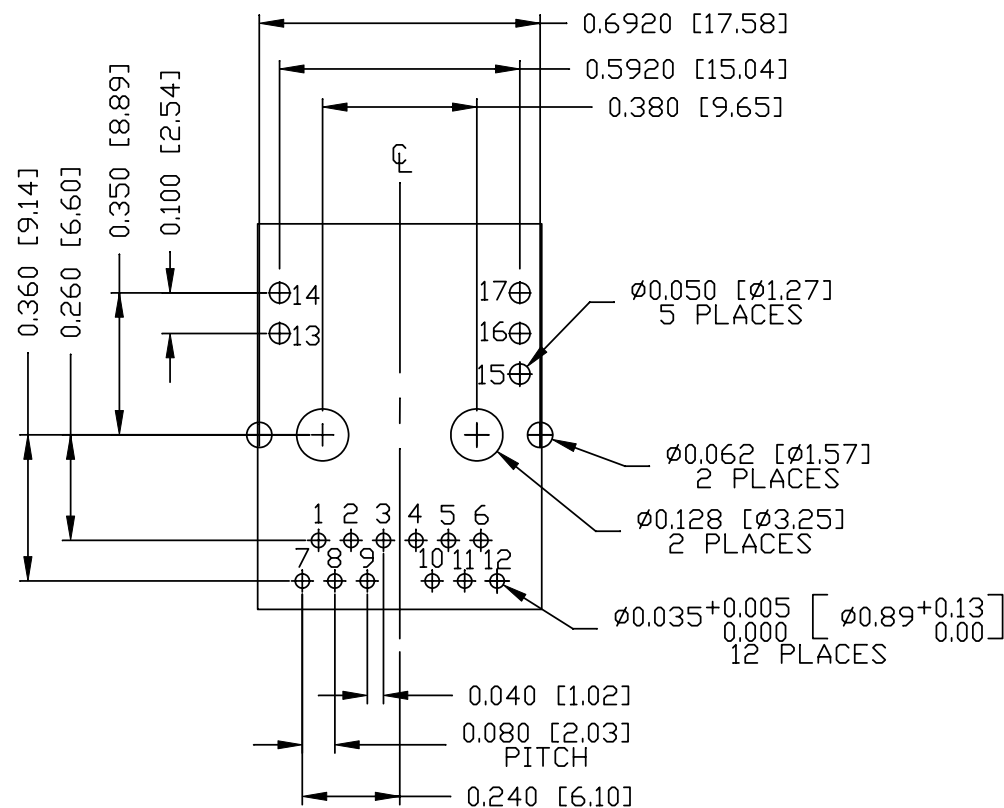


RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE VIEW



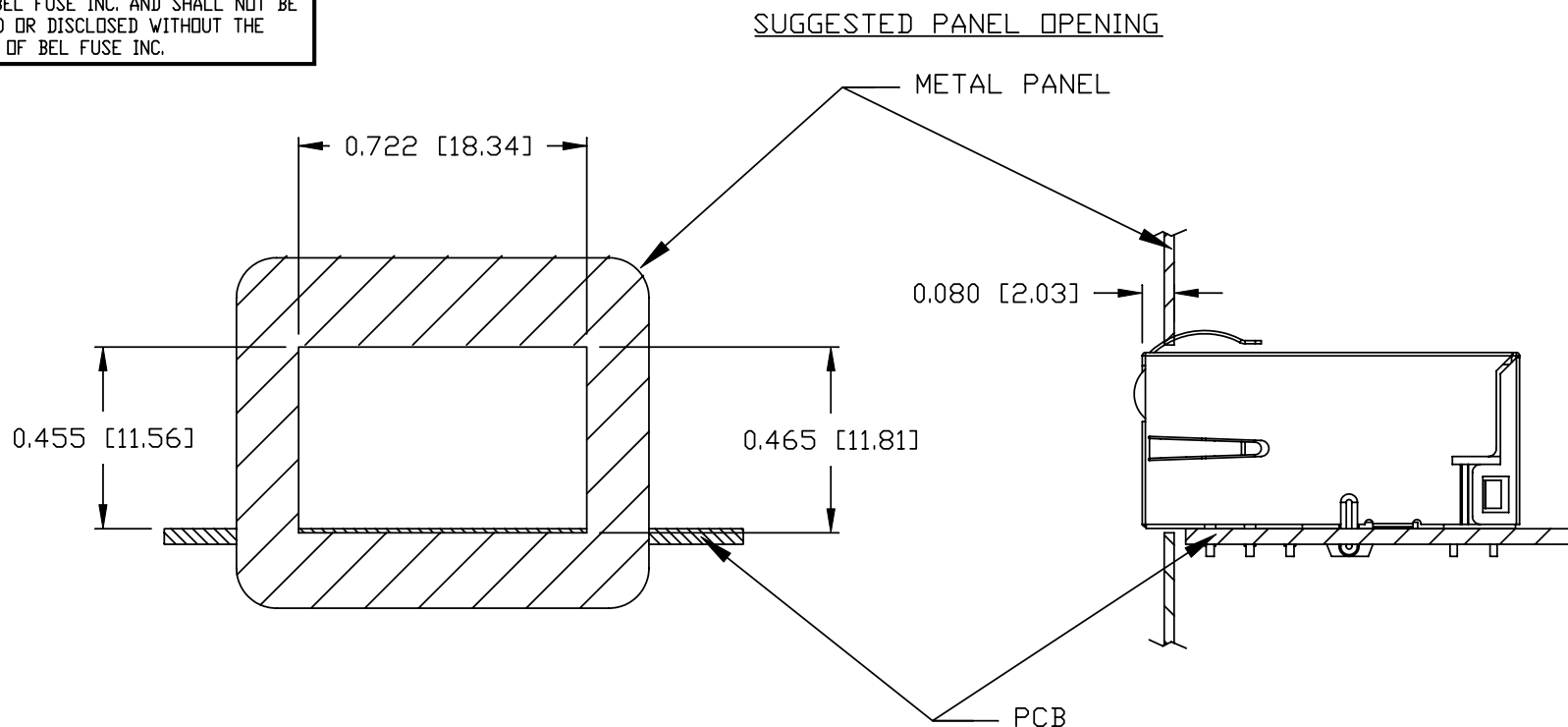
NOTES:

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



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
CHEN BILL	10-13-10	gigabit MagJack® (Ultra Low Profile) PATENTED	L830-1J1T-43	.X	UNIT : INCH [mm]	REV. : F
DRAWN BY	DATE			.XX	SCALE : N/A	SIZE : A4
XIAN JIAXIN	10-13-10			.XXX	0.004	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.



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 gigabit MagJack® (Ultra Low Profile) PATENTED	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
CHEN BILL	10-13-10		L830-1J1T-43	TOL. IN INCH		UNIT : INCH [mm]	REV. : F	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
XIAN JIAXIN	10-13-10		L830-1J1T-43 F.DWG	.XX			PAGE : 5	
				.XXX	±0.004			

