

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.

LED1 POLARITY			LED2 POLARITY		
PIN 21	PIN 22	COLOR	PIN 19	PIN 20	COLOR
-	+	YELLOW	+	-	GREEN
+	-	GREEN			

PRELIMINARY



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

QCL @ 100kHz/100mVRMS
8mA DC BIAS

350μH MIN.

INS. LOSS

1MHz TO 100MHz

-1.2 dB MAX

RET. LOSS (MIN)

0.5MHz-40MHz
40MHz-100MHz

-18 dB
-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

LED 1

VF (FORWARD VOLTAGE)

IF=20mA GREEN 2.2V TYP.
YELLOW 2.1V TYP.

λD (DOMINANT WAVELENGTH)

IF=20mA GREEN 565nm TYP.
YELLOW 590nm TYP.

LED 2

VF (FORWARD VOLTAGE)

IF=20mA GREEN 2.2V TYP.

λD (DOMINANT WAVELENGTH)

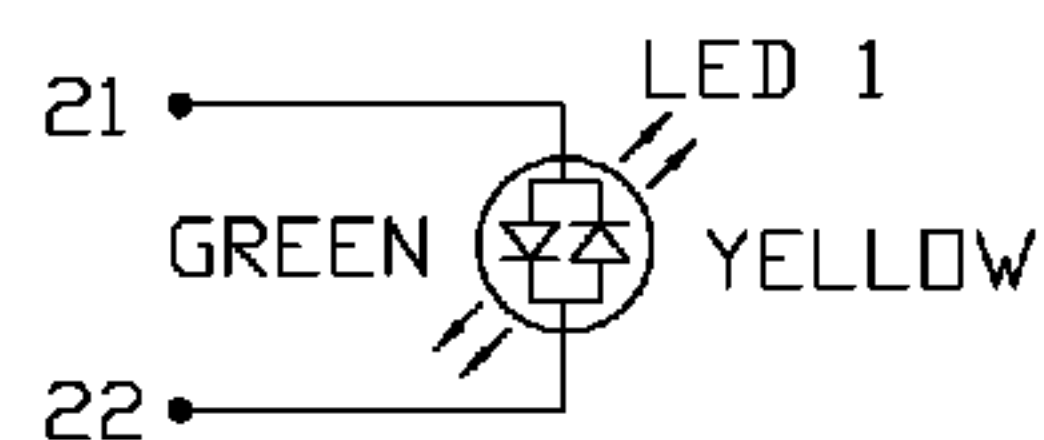
IF=20mA GREEN 565nm TYP.

USB ELECTRICAL:

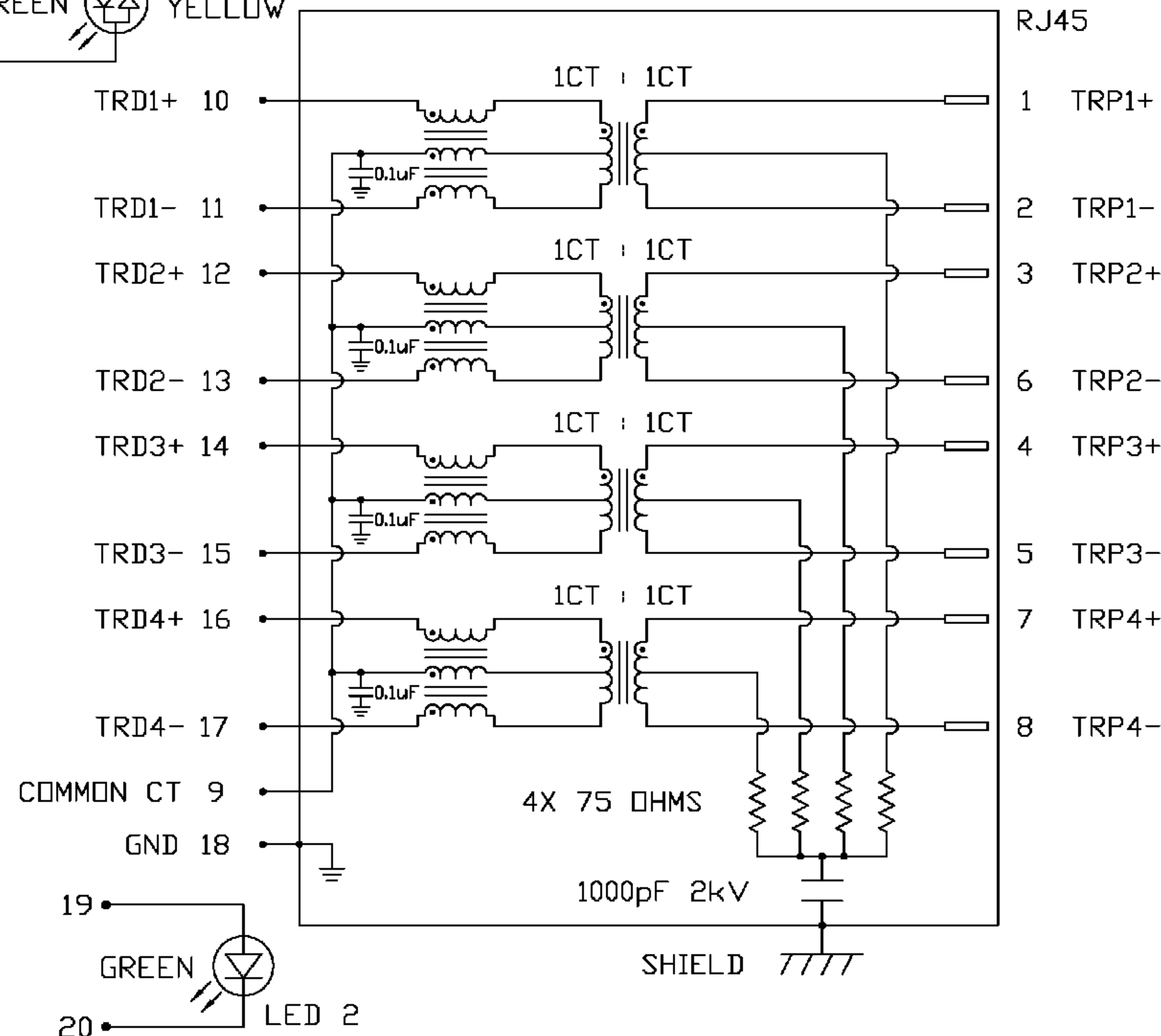
INSULATION RESISTANCE: 1000 MEGA Ω (MIN)

CONTACT RESISTANCE: 25 MILLI Ω (MAX)

DIELECTRIC WITHSTANDING: 750 VAC



SCHEMATIC



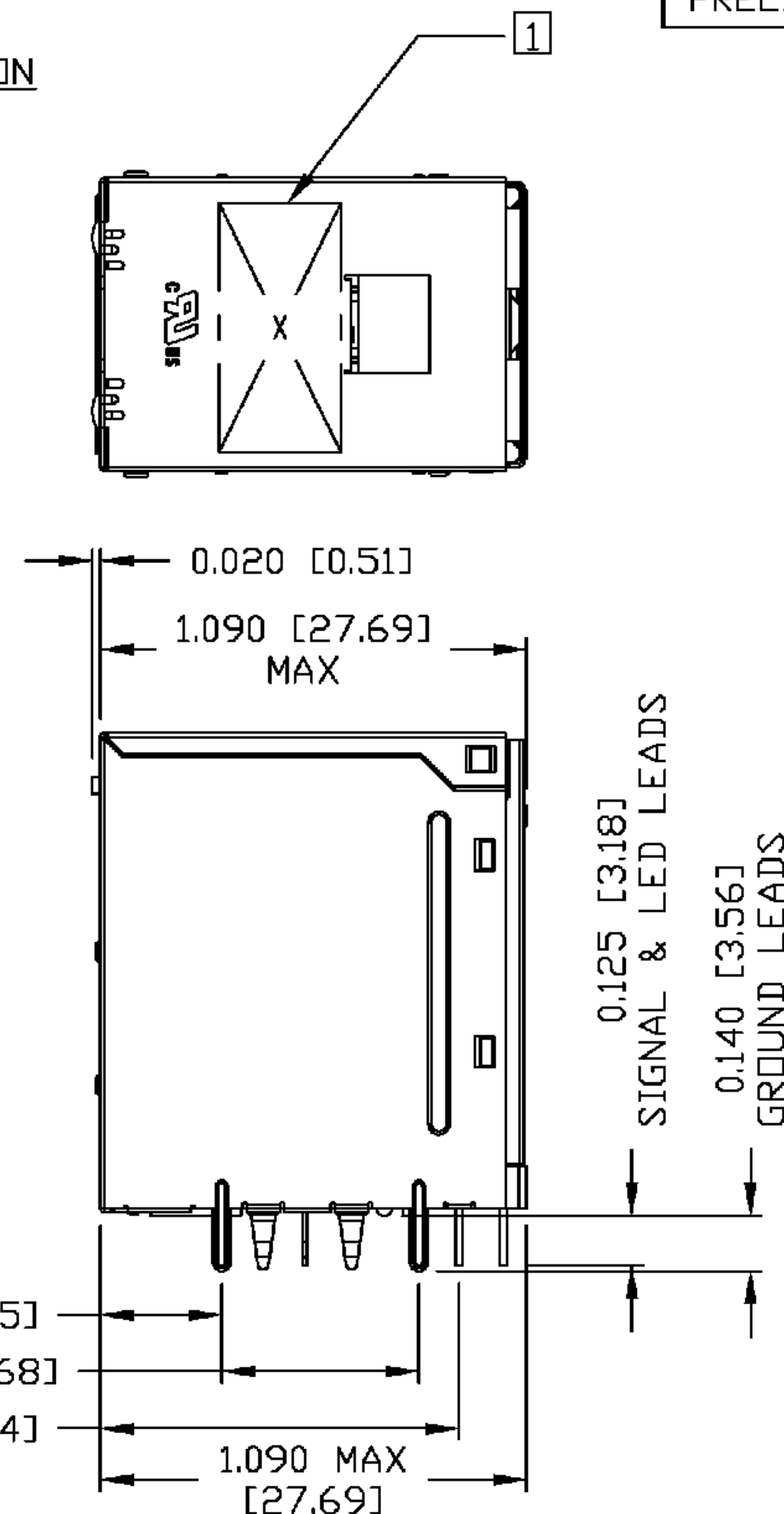
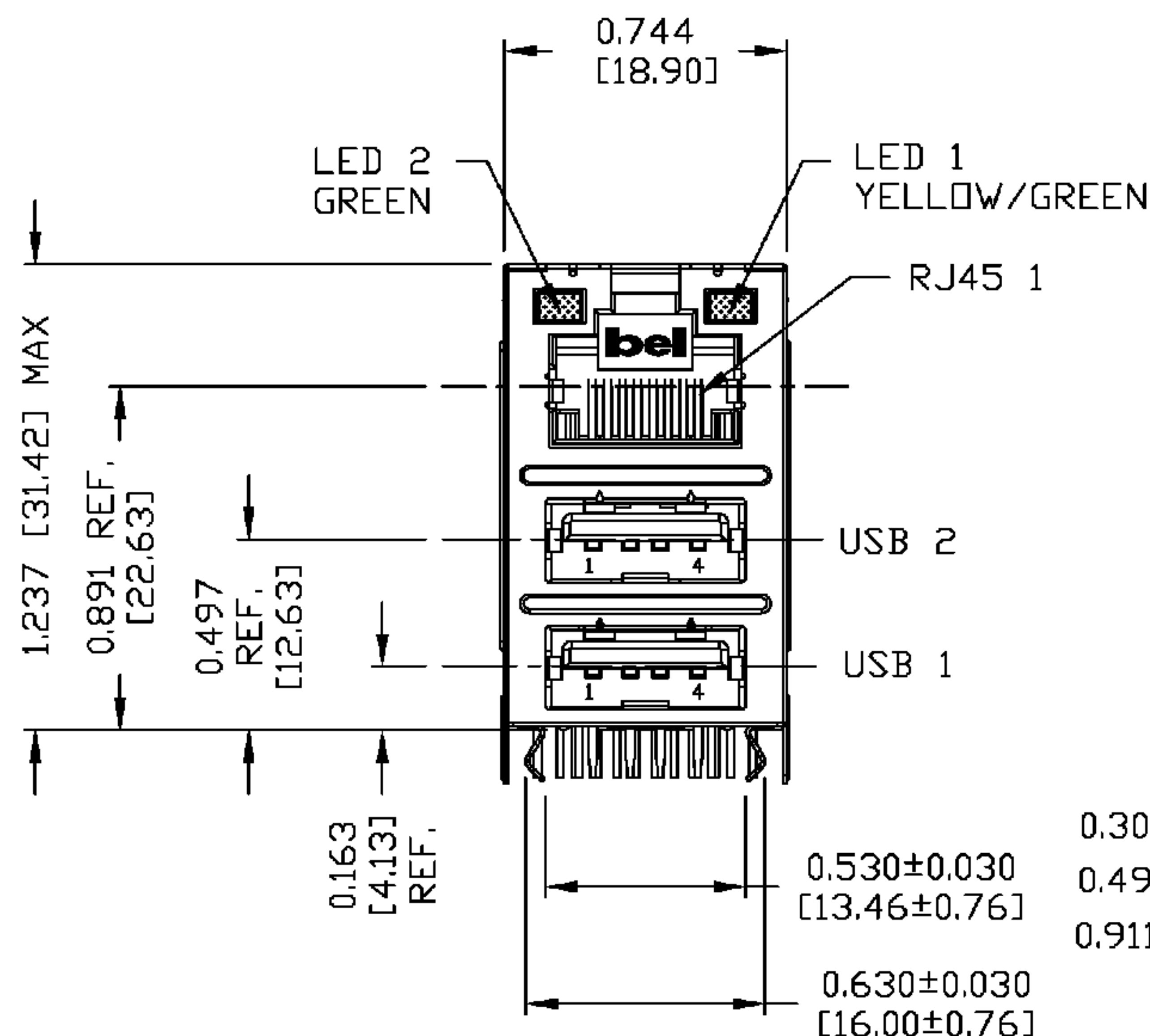
ORIGINATED BY CHUNG	DATE 04-13-06	TITLE gigabit MagJack® Combo C892-1LX1-62-F	PART NO. / DRAWING NO. C8921LX162-F	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY DE	DATE 04-13-06		FILE NAME C8921LX162-FPA.DWG	.X		UNIT : INCH [mm]	REV. : PA	
				.XX		SCALE : N/A	SIZE : A4	
				.XXX			PAGE : 2	





PRELIMINARY

MECHANICAL SPECIFICATION

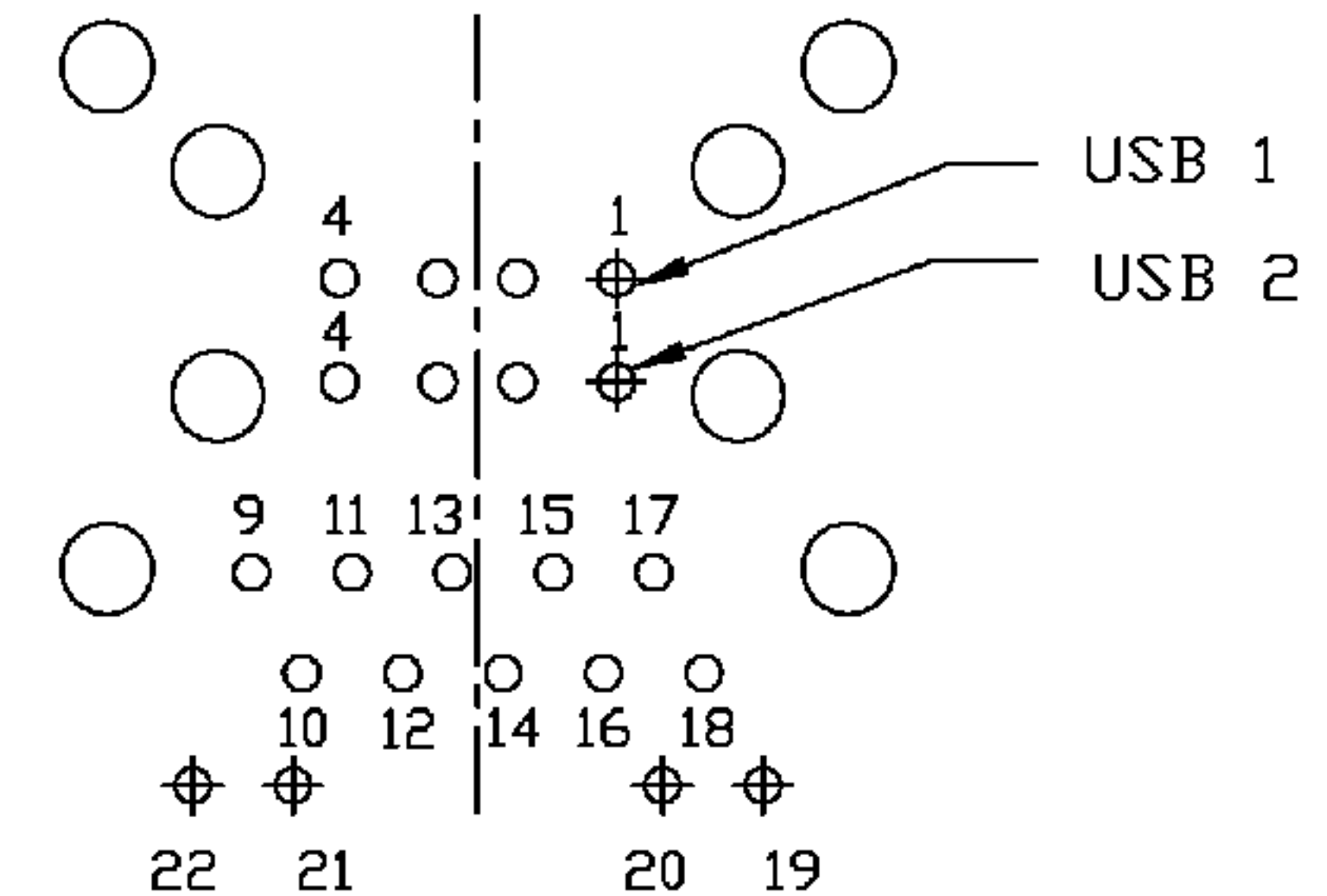
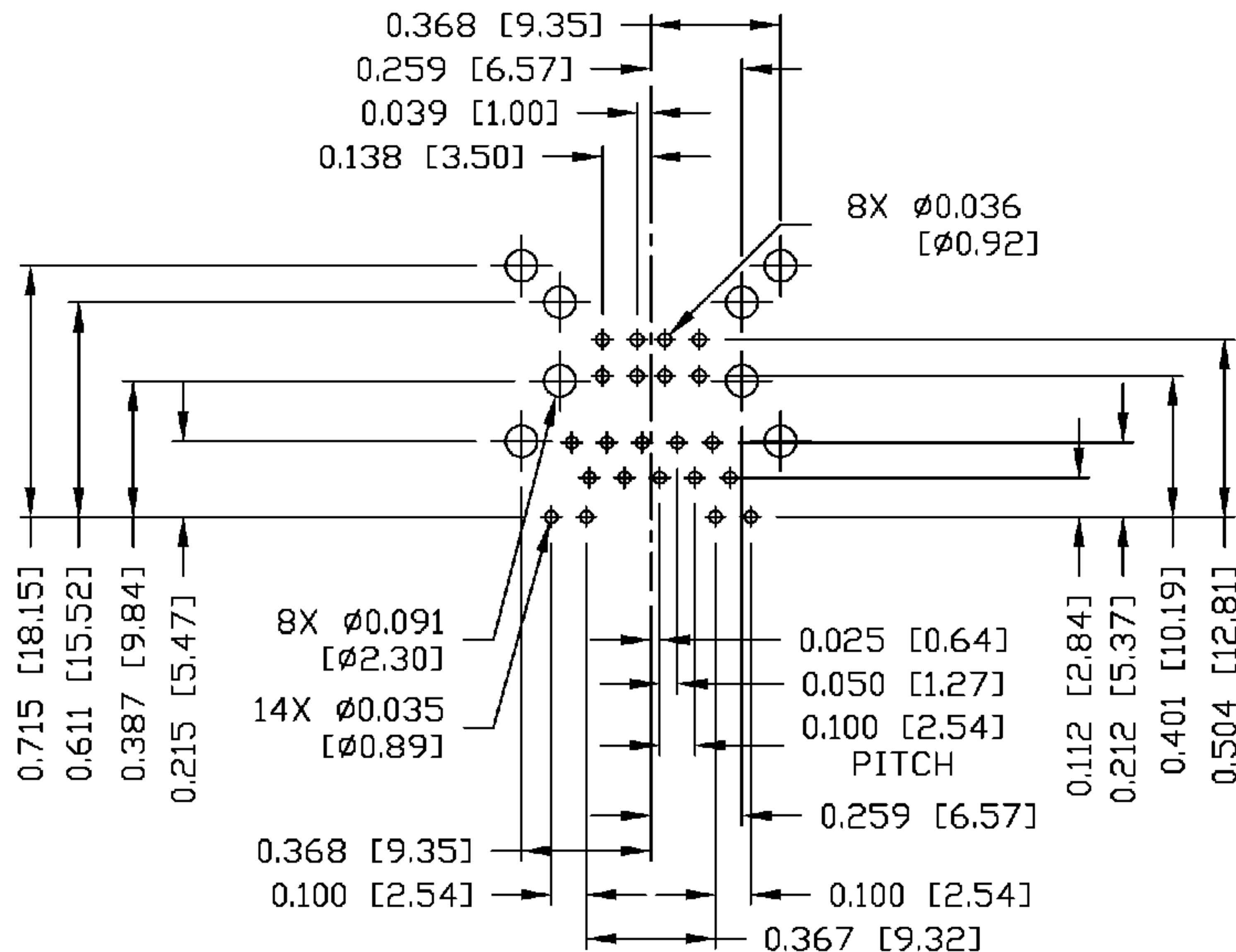


ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	
BILL	04-13-06	gigabit MagJack® Combo C892-1LX1-62-F	C8921LX162-F	TOL. IN INCH	UNIT : INCH [mm]	REV. : PA
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
QIN	04-13-06		C8921LX162-FPA.DWG	.XX .XXX ±0.010	⊕	PAGE : 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.

Recommended PCB footprint
Component Side

PRELIMINARY



SCALE 1.5:1

RJ45 MECHANICAL:

PLASTIC HOUSING: THERMOPLASTIC PBT
FLAMMABILITY RATING UL 94V-0
CONTACTS PLATING: 30 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)

USB MECHANICAL:

MATING FORCE: 35 NEWTONS MAXIMUM
UNMATING FORCE: 10 NEWTONS MINIMUM
CONTACTS PLATING: PROSPER BRONZE, GOLD PLATING ON
CONTACT AREA AND TIN ON SOLDER TAIL.

 UL RECOGNIZED - FILE #E196366 AND E169987.

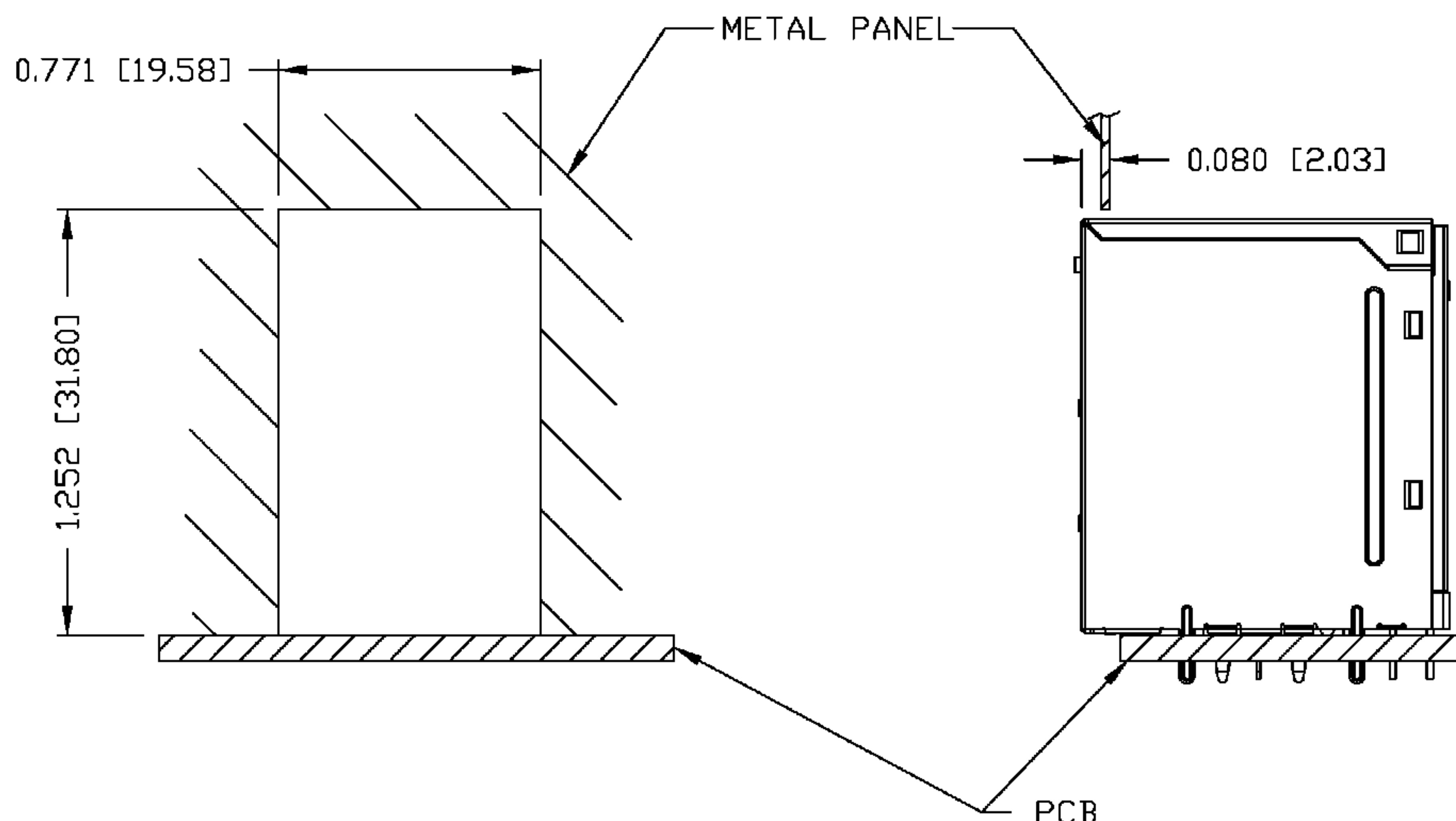
1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER,
AND DATE CODE.

RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC
JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	 COMPONENTS FOR A CONNECTED PLANET
BILL	04-13-06	gigabit MagJack® Combo C892-1LX1-62-F	C8921LX162-F		UNIT : INCH [mm]	
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	
QIN	04-13-06		C8921LX162-FPA.DWG	.XX .XXX	SIZE : A4 PAGE : 4	

SUGGESTED PANEL OPENING

PRELIMINARY



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-H3 (TOP)

0200-9999-H4 (BOTTOM)

PACKING QUANTITY : 35 PCS FINISHED GOODS PER TRAY

9 TRAYS (315 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.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
BILL	04-13-06	gigabit MagJack® Combo C892-1LX1-62-F	C8921LX162-F	.X	UNIT : INCH [mm]	REV. : PA
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A	SIZE : A4
QIN	04-13-06		C8921LX162-FPA.DWG	.XXX ±0.004	⊕ — — — — —	PAGE : 5