

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 14	PIN 13	COLOR	PIN 12	PIN 11	COLOR
-	+	YELLOW	+	-	ORANGE
			-	+	GREEN

PRELIMINARY



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

1MHz TO 100MHz -1.0 dB MAX

RETURN LOSS (MIN.) @ LOAD 100ΩHMS

1MHz-30MHz -18 dB

30MHz-60MHz -16 dB

60MHz-80MHz -12 dB

80MHz-100MHz -10 dB

CM TO CM REJ

1MHz - 100MHz -30 dB MIN

CROSS TALK

1MHz - 100MHz -35 dB MIN

HIPOT (Isolation Voltage):

1500 Vrms or 2250VDC

LED 1

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

LED 2

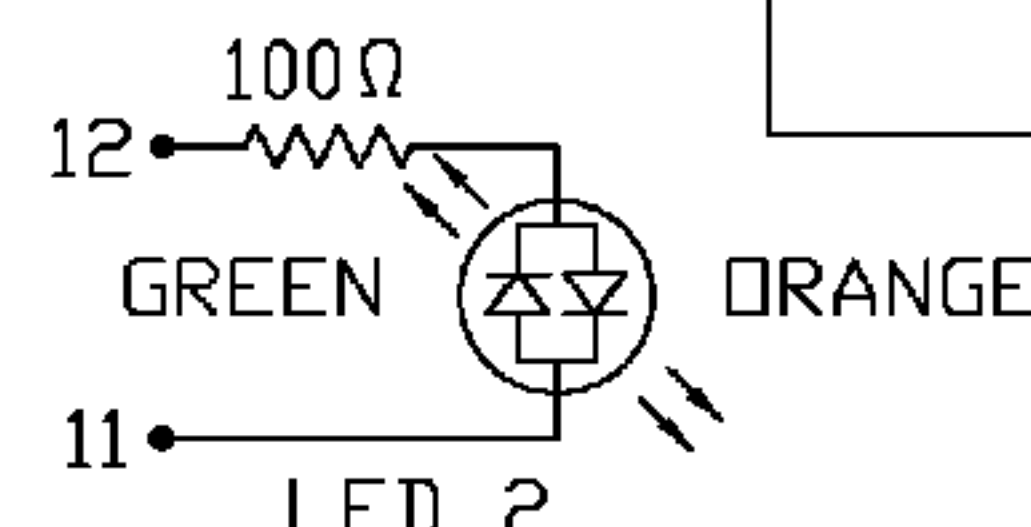
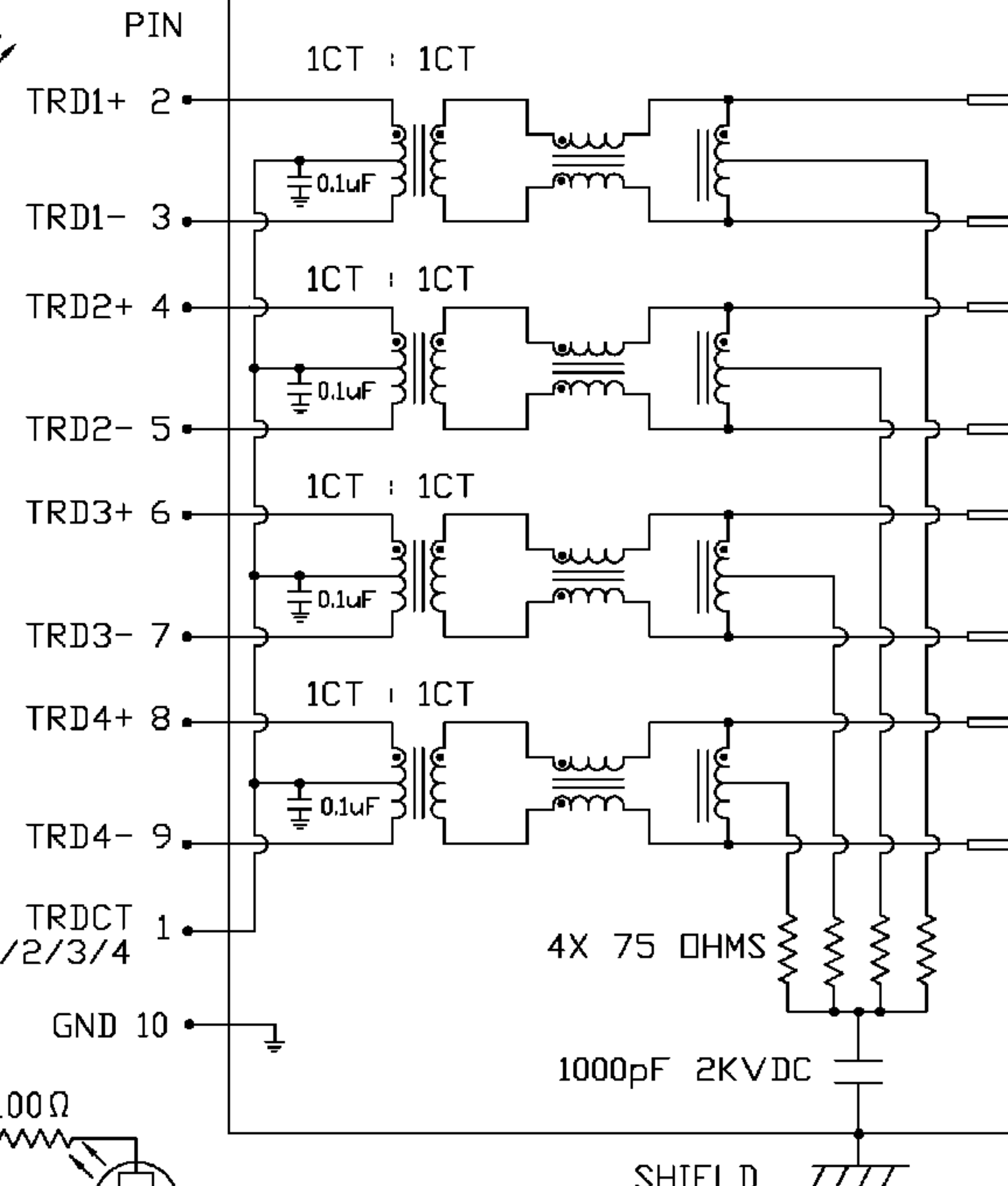
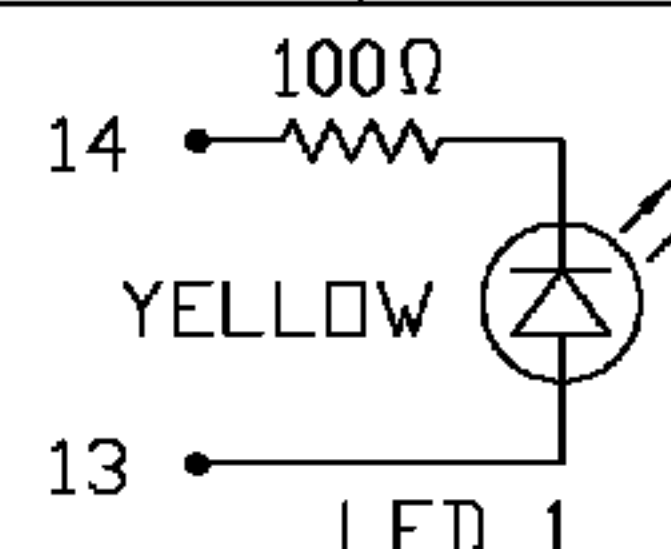
VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
		ORANGE	2.0V TYP.
λ D (DOMINANT WAVELENGTH)	IF=20mA	GREEN	565nm TYP.
		ORANGE	610nm TYP.

USB ELECTRICAL:

INSULATION RESISTANCE: 1000 MEGAΩ (MIN)

CONTACT RESISTANCE: 25 MILLI Ω (MAX)

DIELECTRIC WITHSTANDING: 750 VAC



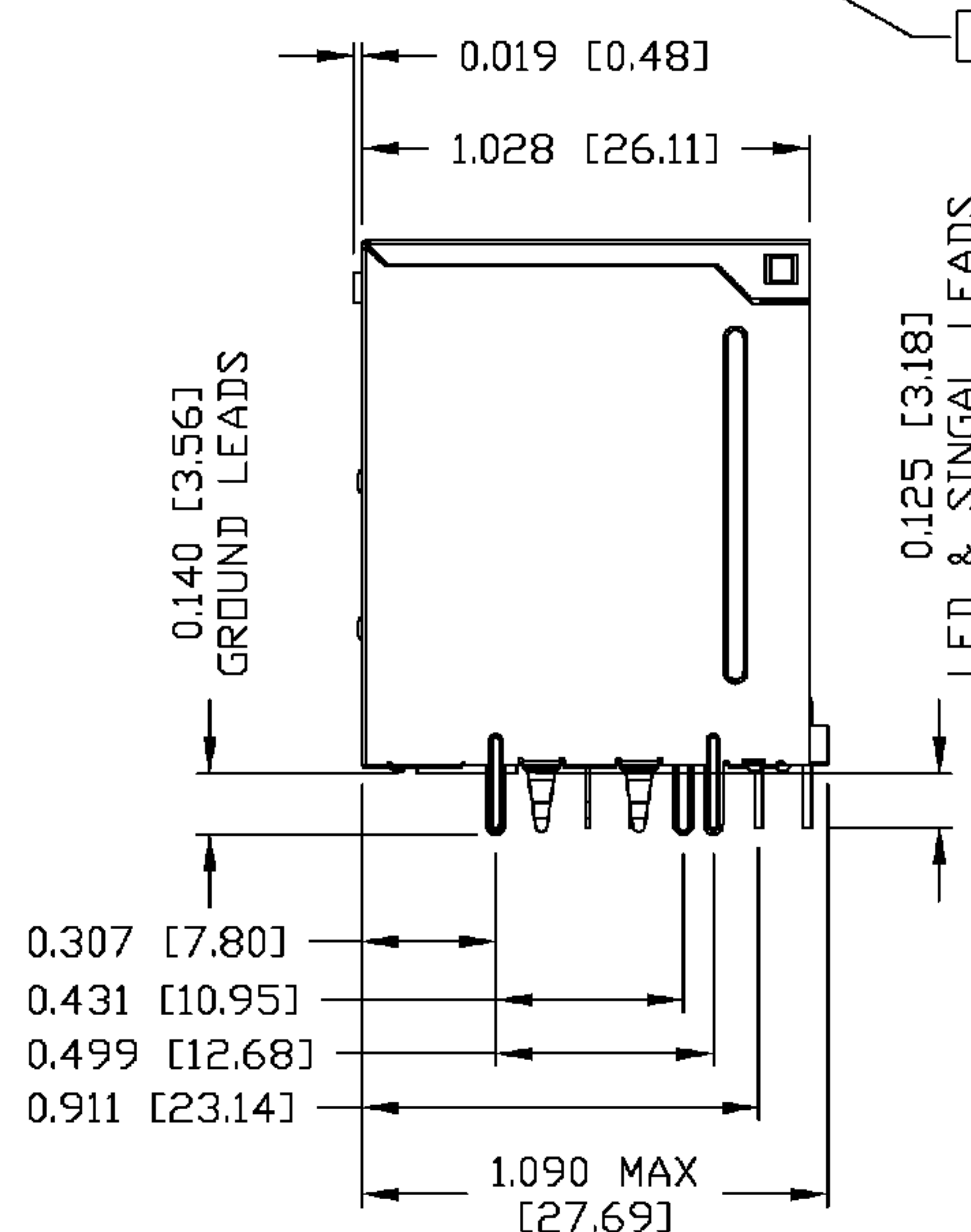
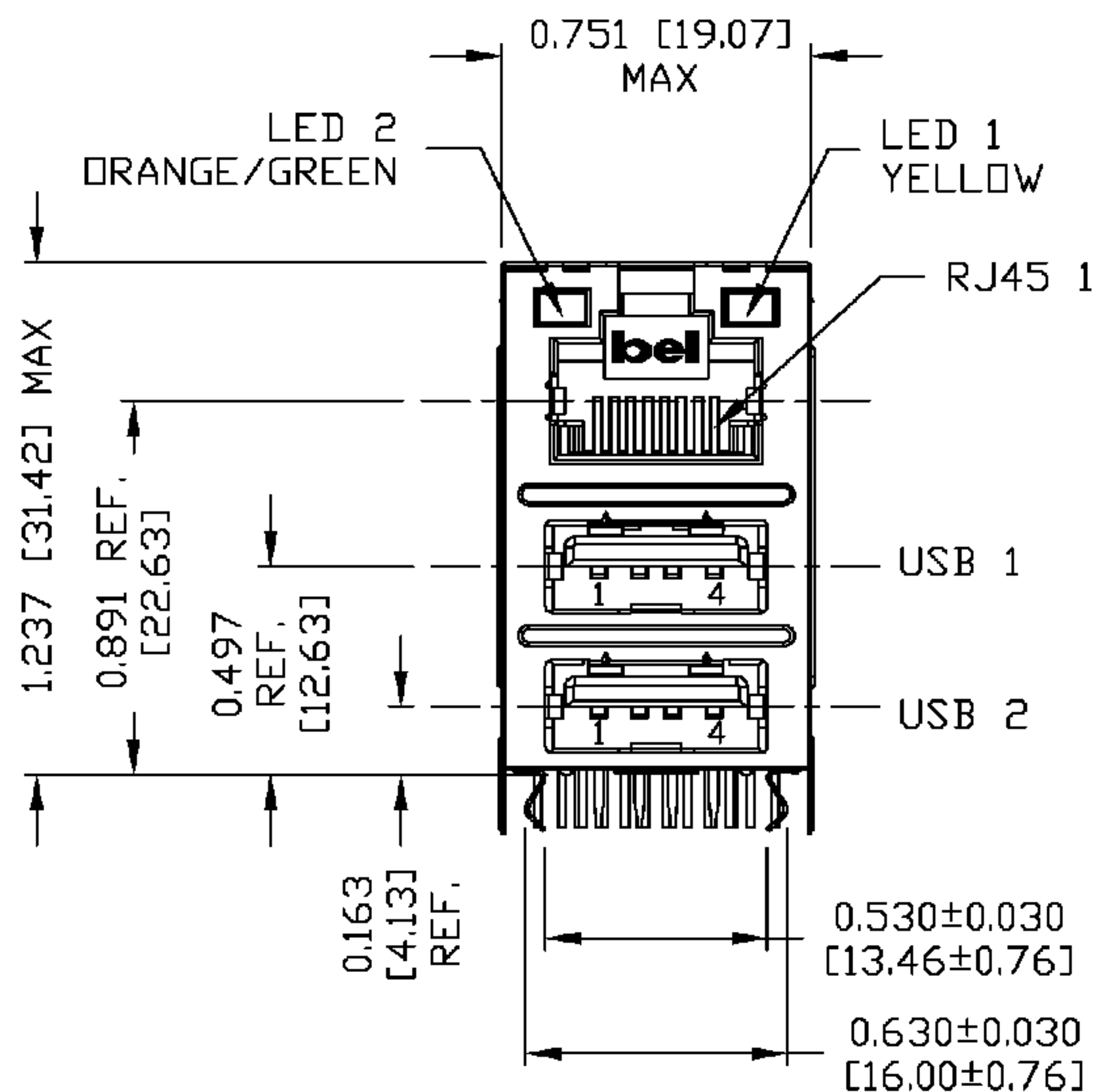
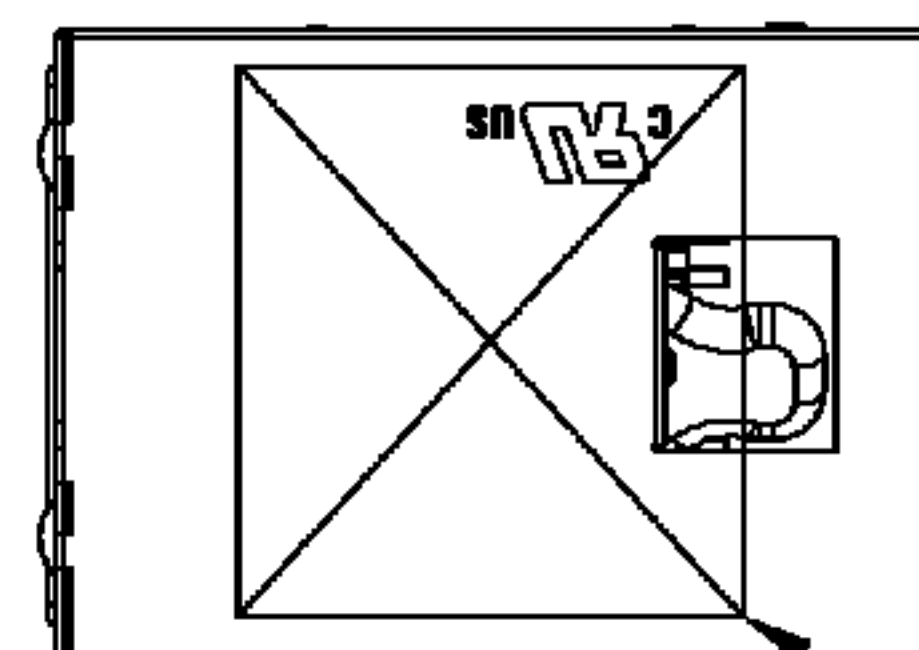
RJ45
RJ1 TRP1+
RJ2 TRP1-
RJ3 TRP2+
RJ6 TRP2-
RJ4 TRP3+
RJ5 TRP3-
RJ7 TRP4+
RJ8 TRP4-

ORIGINATED BY CHUNG	DATE 07-07-06	TITLE gigabit MagJack® Combo (Staggered pin, 12 cores)	PART NO. / DRAWING NO. C893-1XX1-T8	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
DRAWN BY DE	DATE 07-07-06		FILE NAME C8931XX1T8PA.DWG	.X		UNIT : INCH [mm]	REV. : PA
				.XX		SCALE : N/A	SIZE : A4
			XXX			PAGE : 2	


COMPONENTS OR A
CONNECTED
PLANET



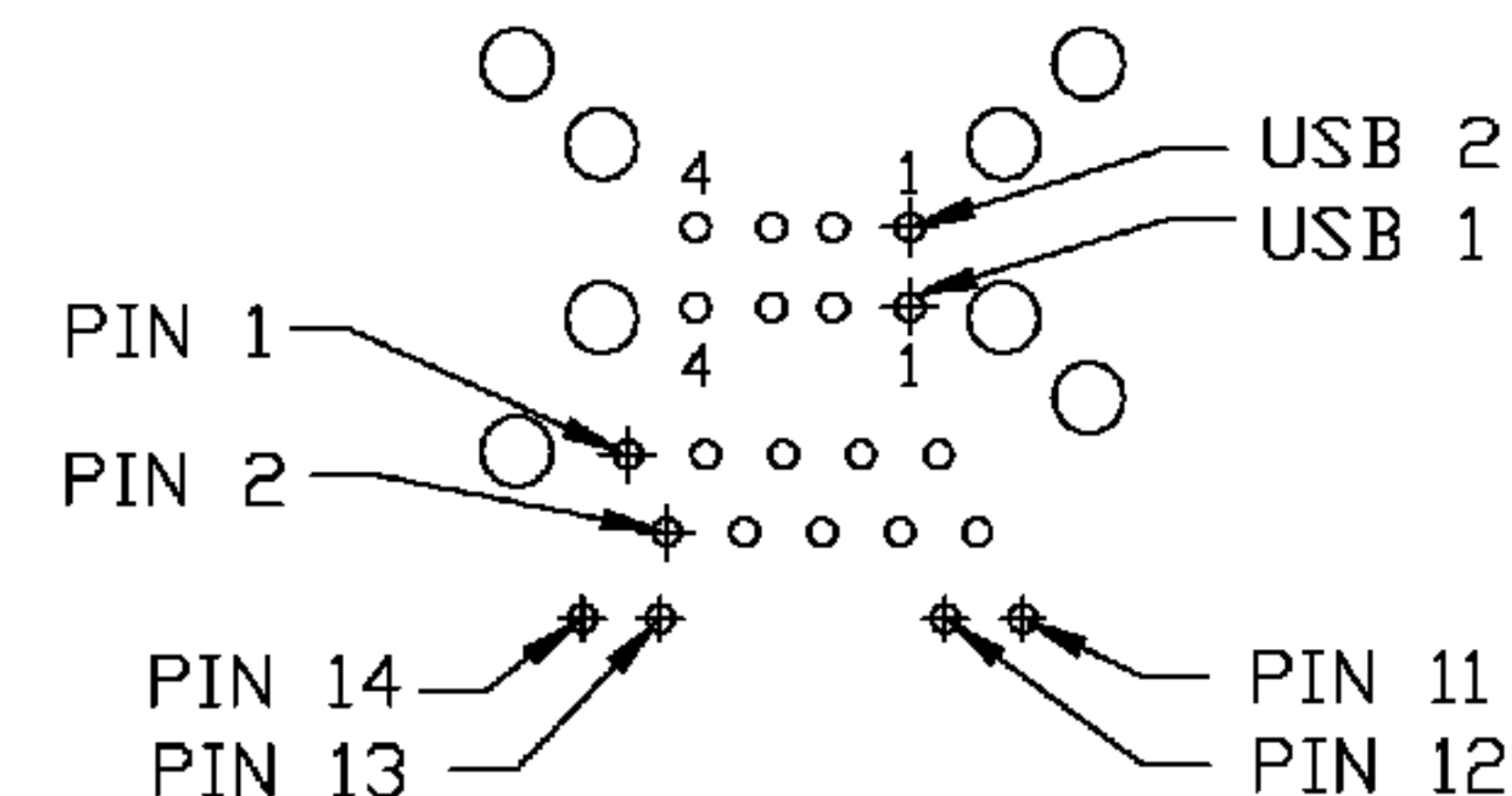
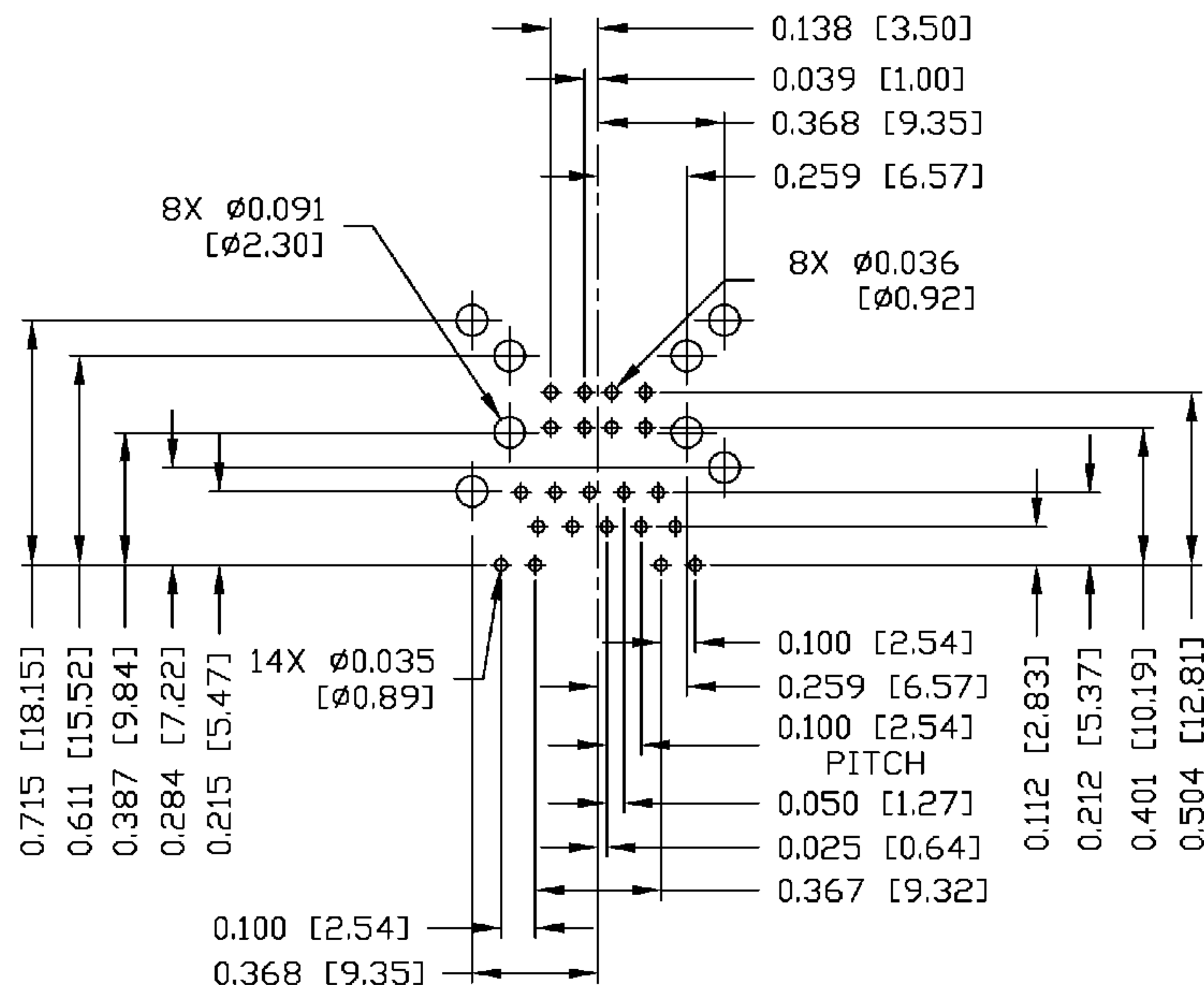
MECHANICAL SPECIFICATION



ORIGINATED BY QIN	DATE 07-07-06	TITLE gigabit MagJack® Combo (Staggered pin, 12 cores)	PART NO. / DRAWING NO. C893-1XX1-T8	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		COMPONENTS FOR A CONNECTED PLANET
DRAWN BY TING	DATE 07-07-06		FILE NAME C8931XX1T8PA.DWG	.X		UNIT : INCH [mm]	REV. : PA	
				.XX		SCALE : N/A	SIZE : A4	
				.XXX	±0.010		PAGE : 3	

PRELIMINARY

Recommended PCB footprint
Component Side



RJ45 MECHANICAL:

PLASTIC HOUSING:

CONTACTS PLATING:

PINS:

METAL SHIELD:

THERMOPLASTIC PBT
FLAMMABILITY RATING UL 94V-0
50 MICRO-INCH HARD GOLD PLATING
TIN-COATED CP WIRE, DIA 0.018 INCH.
NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)

USB MECHANICAL:

MATING FORCE:

UNMATING FORCE:

CONTACT:

35 NEWTONS MAXIMUM
10 NEWTONS MINIMUM
PHOSPHOR BRONZE
30 MICRO-INCH GOLD PLATING ON CONTACT
AREA AND TIN ON SOLDER TAIL.

JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

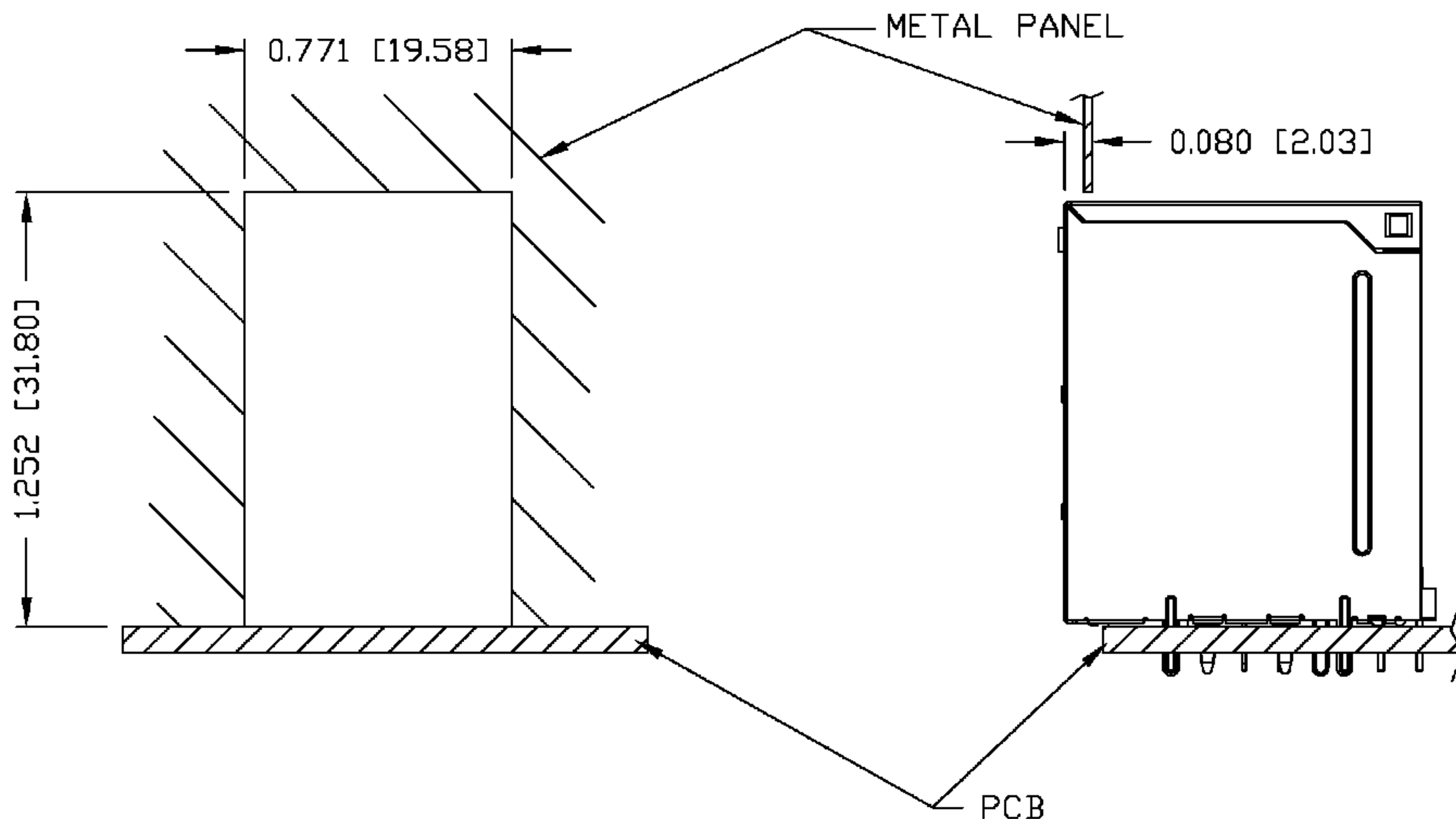
1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND
DATE CODE.

UL UL RECOGNIZED - FILE #E196366 AND E169987.
RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
QIN	07-07-06	gigabit MagJack® Combo (Staggered pin, 12 cores)	C893-1XX1-T8		UNIT : INCH [mm]	REV. : PA
DRAWN BY	DATE		FILE NAME		SCALE : N/A	SIZE : A4
TING	07-07-06		C8931XX1T8PA.DWG		±0.004	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.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : PA
QIN	07-07-06	gigabit MagJack® Combo (Staggered pin,12 cores)	C893-1XX1-T8	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 5
TING	07-07-06		C8931XX1T8PA.DWG	.XXX	±0.004		

