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ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX 1CT : 1CT ±3%
RX 1CT : 1CT ±3%

DCL @ 100kHz,100mVRMS

8mA DC BIAS 350µH MIN

INS. LOSS

100KHz TO 100MHz -1.1 dB MAX

RET. LOSS

1MHz-30MHz -18 dB MIN

30MHz-80MHz -12 dB MIN

CM TO CM REJ

100kHz - 100MHz -30 dB Min

CM TO DM REJ

100kHz - 100MHz -35 dB Min

CROSS TALK

1MHz - 100MHz -30 dB Min

HIPOT (Isolation Voltage)

1500 Vrms or 2250VDC

LEAKAGE INDUCTANCE

PRIMARY W/ SECONDARY 0.3uH Max. @ 1MHz

INTERWINDING CAPACITANCE

PER CHANNEL (PRI. TO SEC.) 30pF Max @ 1MHz

DC RESISTANCE

(RJ1-RJ2)=(RJ3-RJ6) 1.4 ohms Max

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

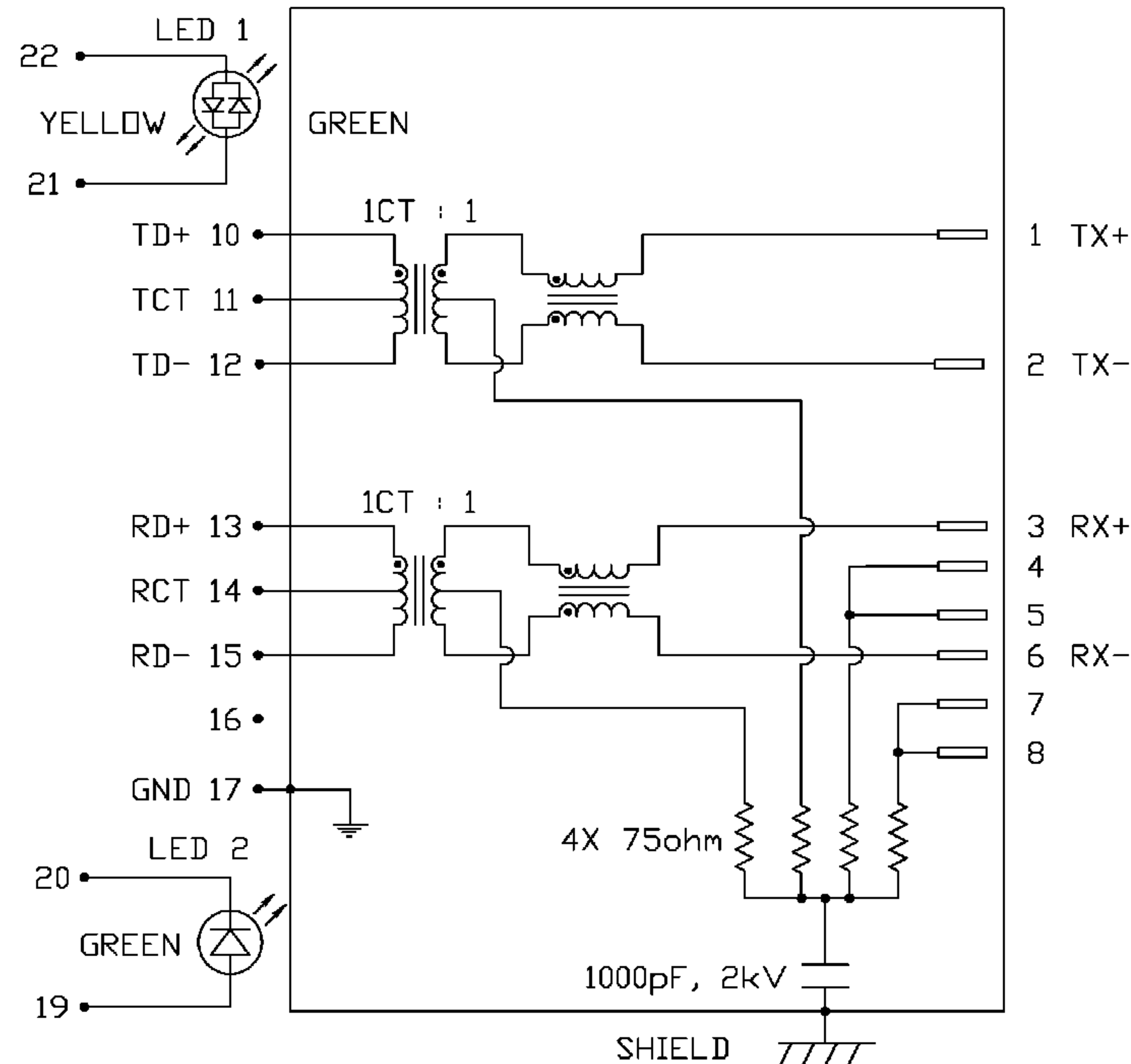
INSULATION RESISTANCE 1000 MEGA Ω (MIN)

CONTACT RESISTANCE 25 MILLI Ω (MAX)

DIELECTRIC WITHSTANDING 750 VAC

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

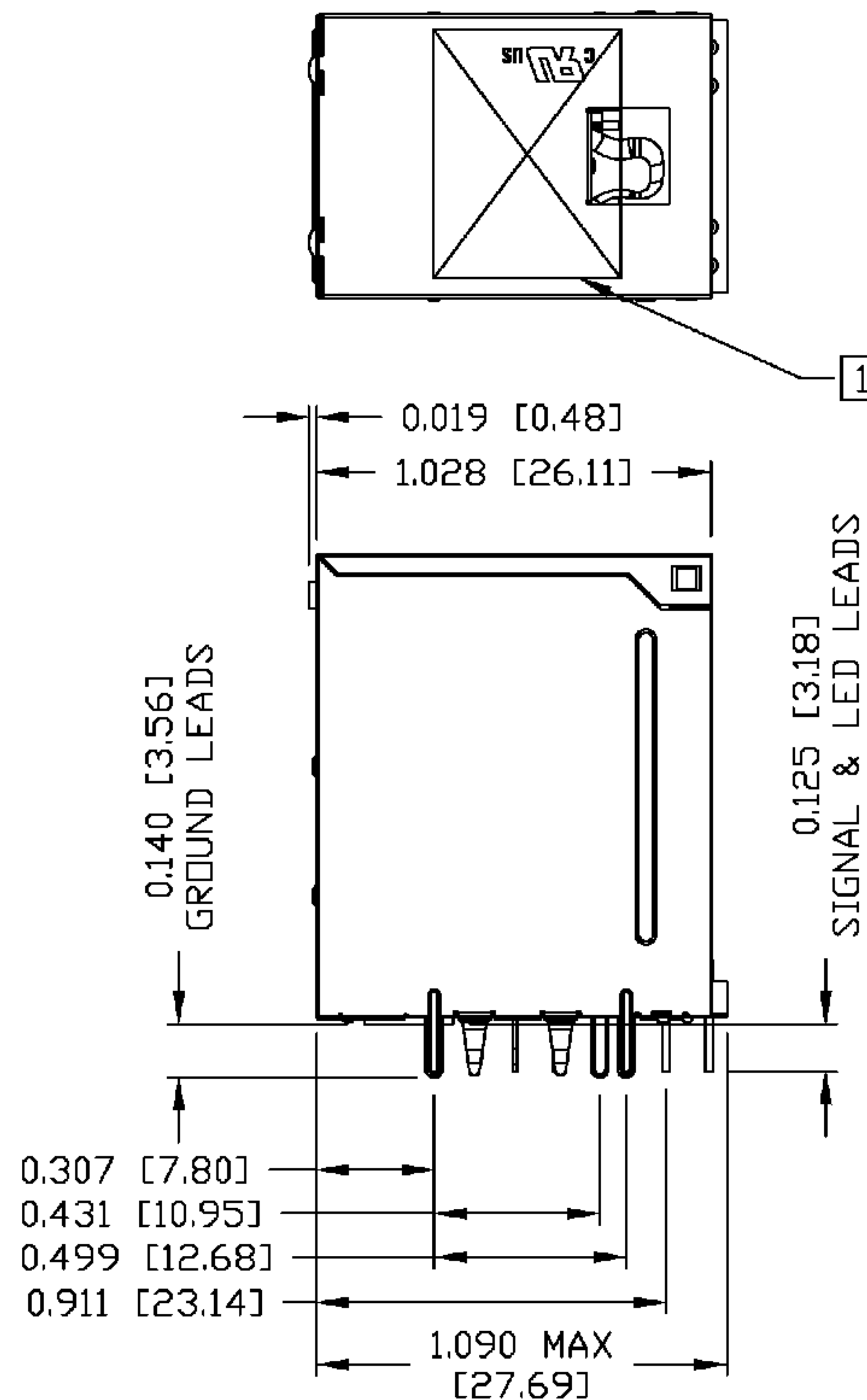
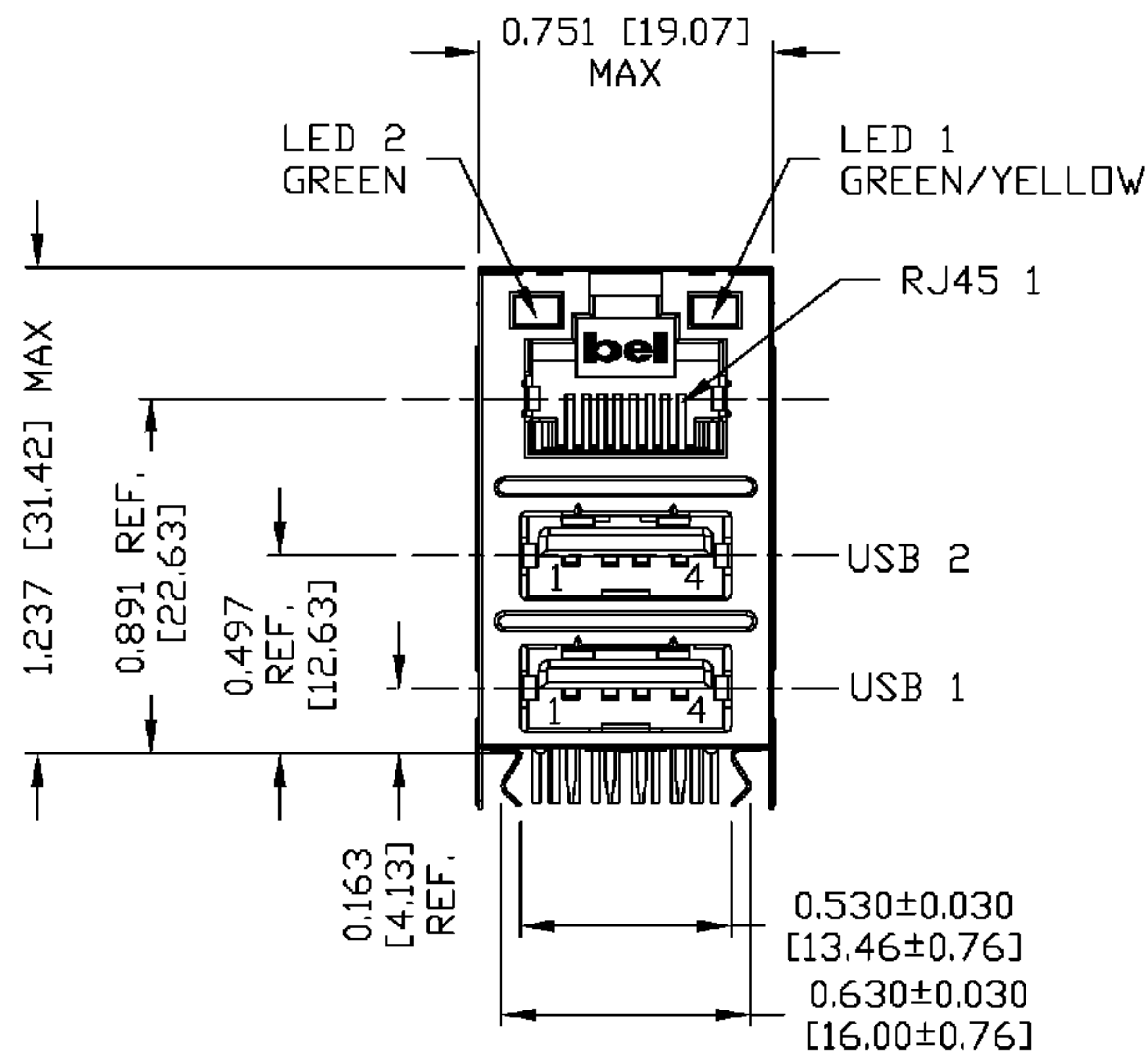
SCHEMATIC



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	
CHUNG	04-12-06	MagJack® Combo (Staggered pin)	C893-1LX1-E5	TOL. IN INCH	UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
DE	04-12-06		C8931LX1E5B.DWG	.XX		PAGE : 2
				.XXX		



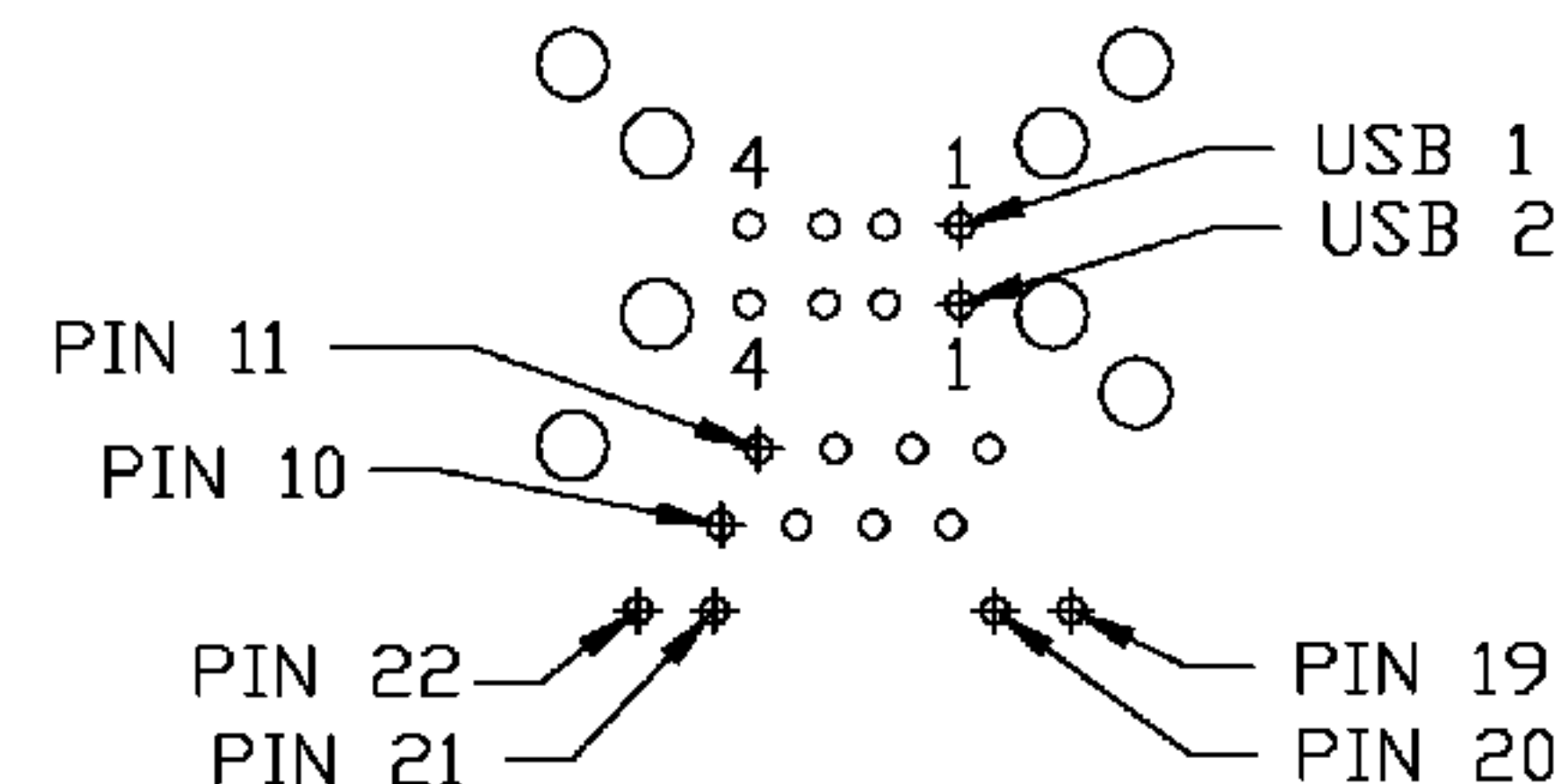
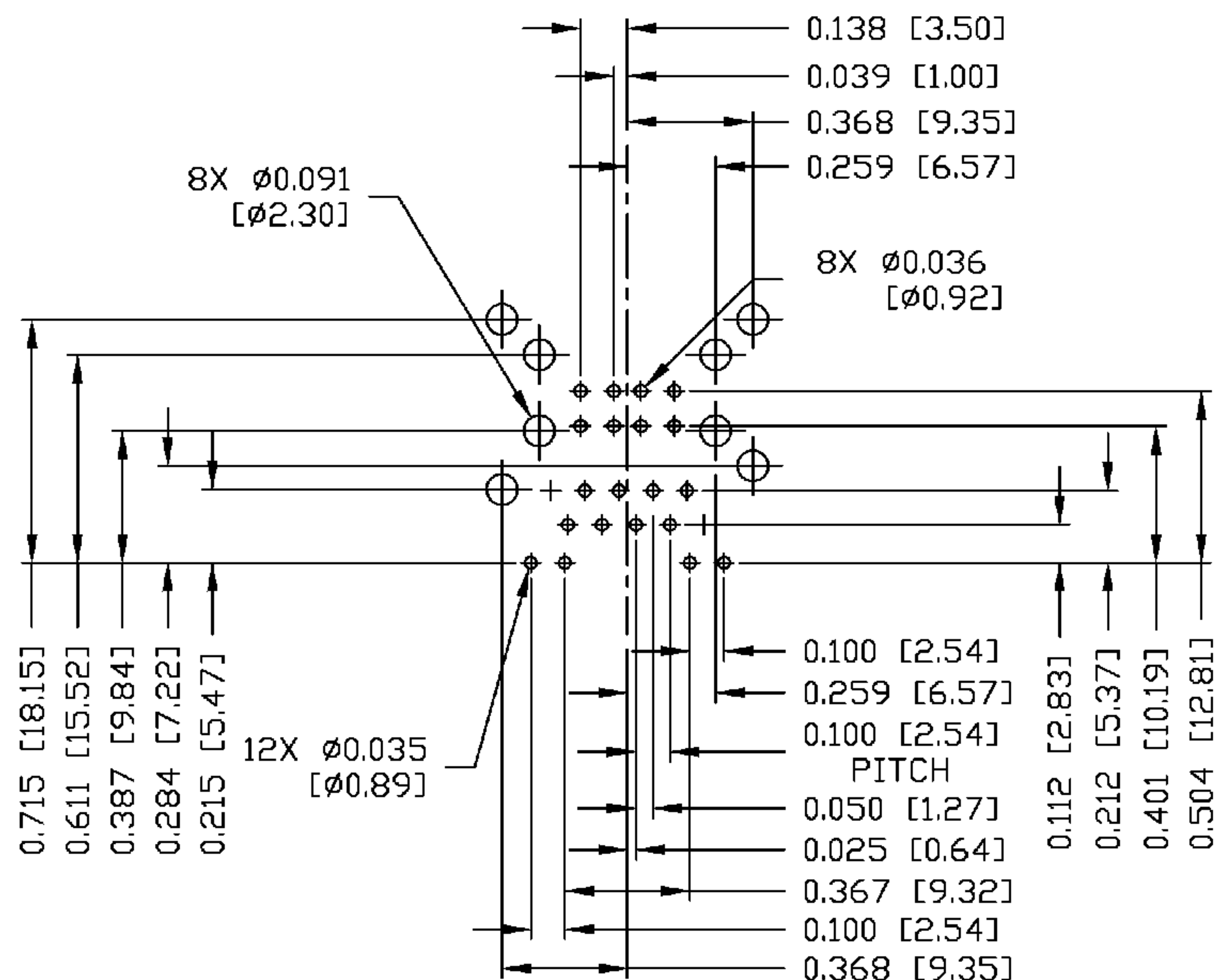
MECHANICAL SPECIFICATION



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : B
QIN	04-12-06	MagJack® Combo (Staggered pin)	C893-1LX1-E5	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 3
TING	04-12-06		C8931LX1E5B.DWG	.XXX	±0.010		



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:

CONTACTS:

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

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.

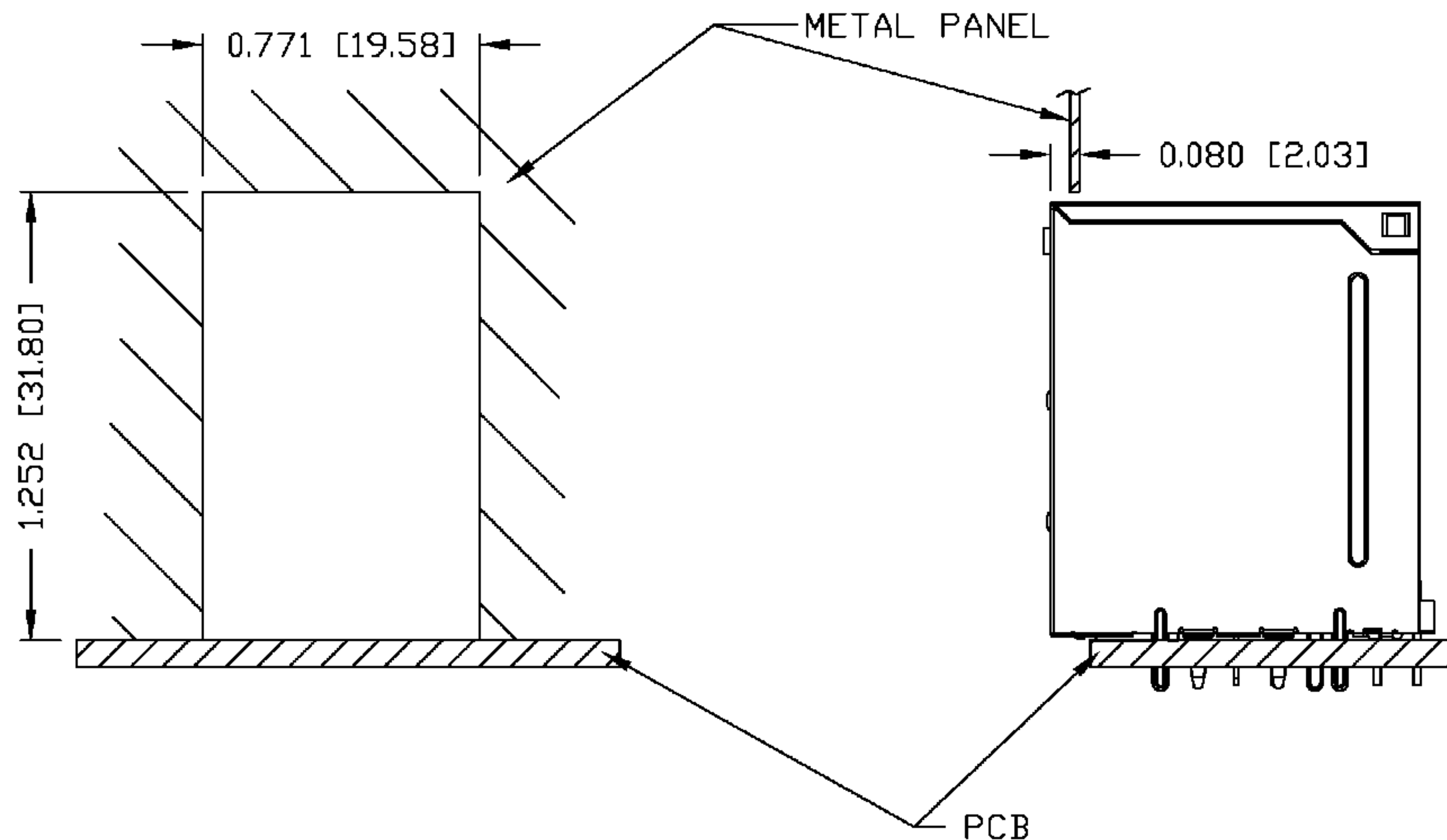
JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
QIN	04-12-06	MagJack® Combo (Staggered pin)	C893-1LX1-E5	.X	UNIT : INCH [mm] REV. : B
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
TING	04-12-06		C8931LX1E5B.DWG	.XXX ±0.004	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.

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. : B
QIN	04-12-06	MagJack® Combo (Staggered pin)	C893-1LX1-E5	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 5
TING	04-12-06		C8931LX1E5B.DWG	.XXX	±0.004		