

THE INFORMATION CONTAINED HEREIN IS CONSIDERED
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RoHS
2002/95/EC



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX	1CT : 1CT ±3%
RX	1CT : 1CT ±3%
DC L @ 100kHz,100mVRMS	350µH MIN
8mA DC BIAS	
INS. LOSS	-1.1 dB MAX
100kHz TO 100MHz	
RET. LOSS	-18 dB MIN
1MHz-30MHz	
30MHz-80MHz	-12 dB MIN
CM TO CM REJ	-30 dB Min
100kHz - 100MHz	
CM TO DM REJ	-35 dB Min
100kHz - 100MHz	
CROSS TALK	-30 dB Min
1MHz - 100MHz	
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

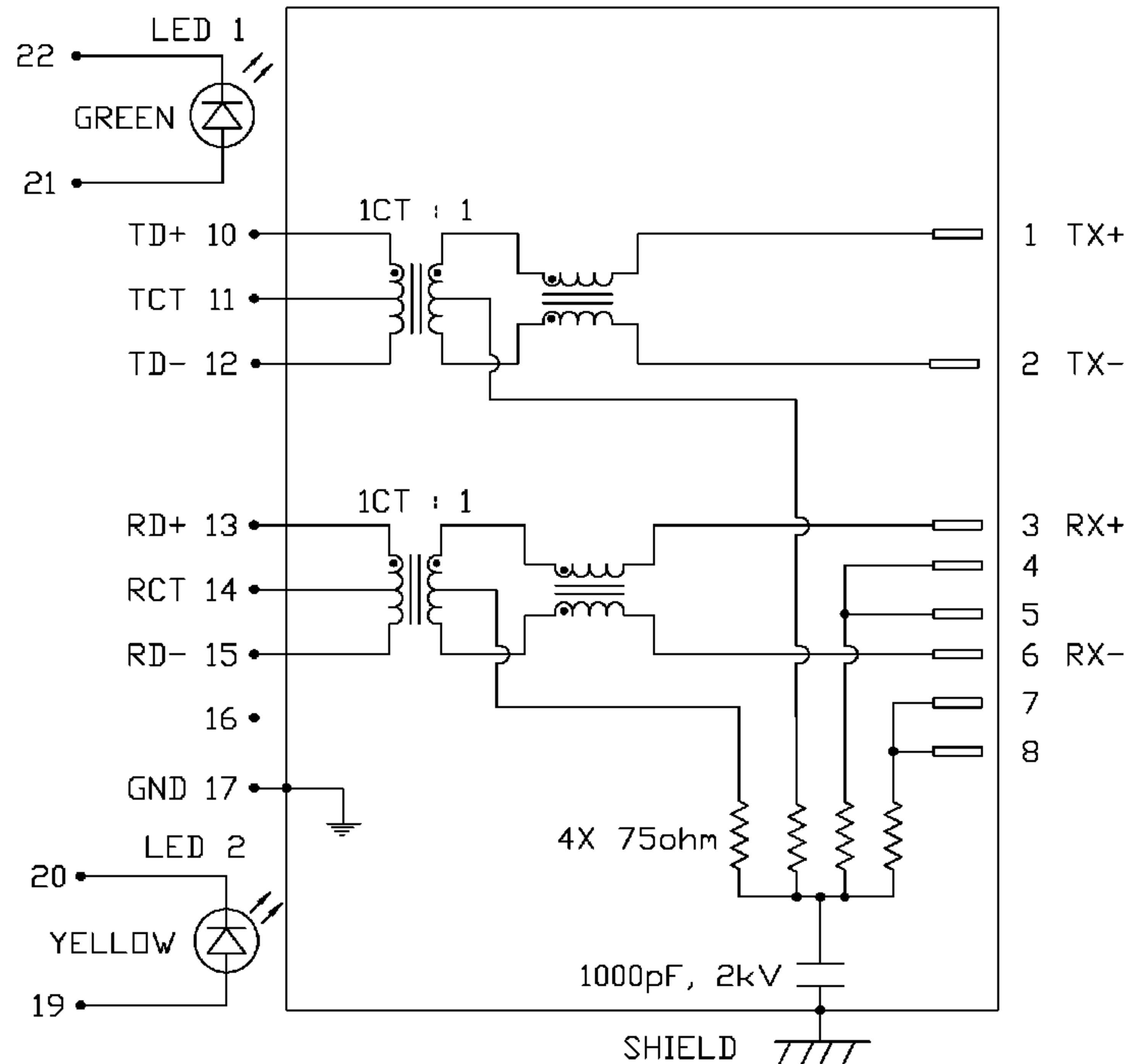
LED 1			
VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN	565nm TYP.
LED 2			
VF (FORWARD VOLTAGE)	IF=20mA	YELLOW	2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	590nm TYP.

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	+	-	YELLOW

SCHEMATIC

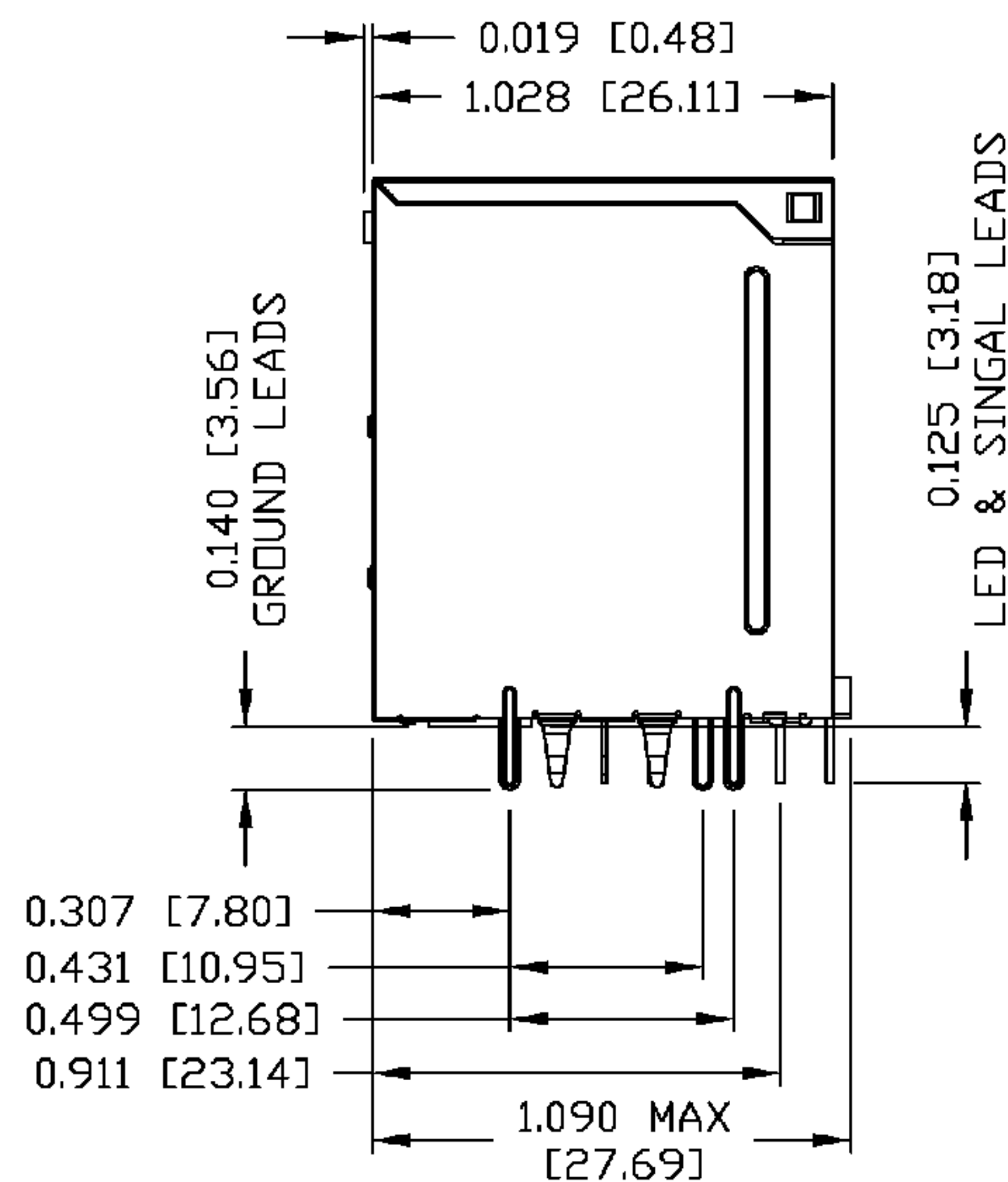
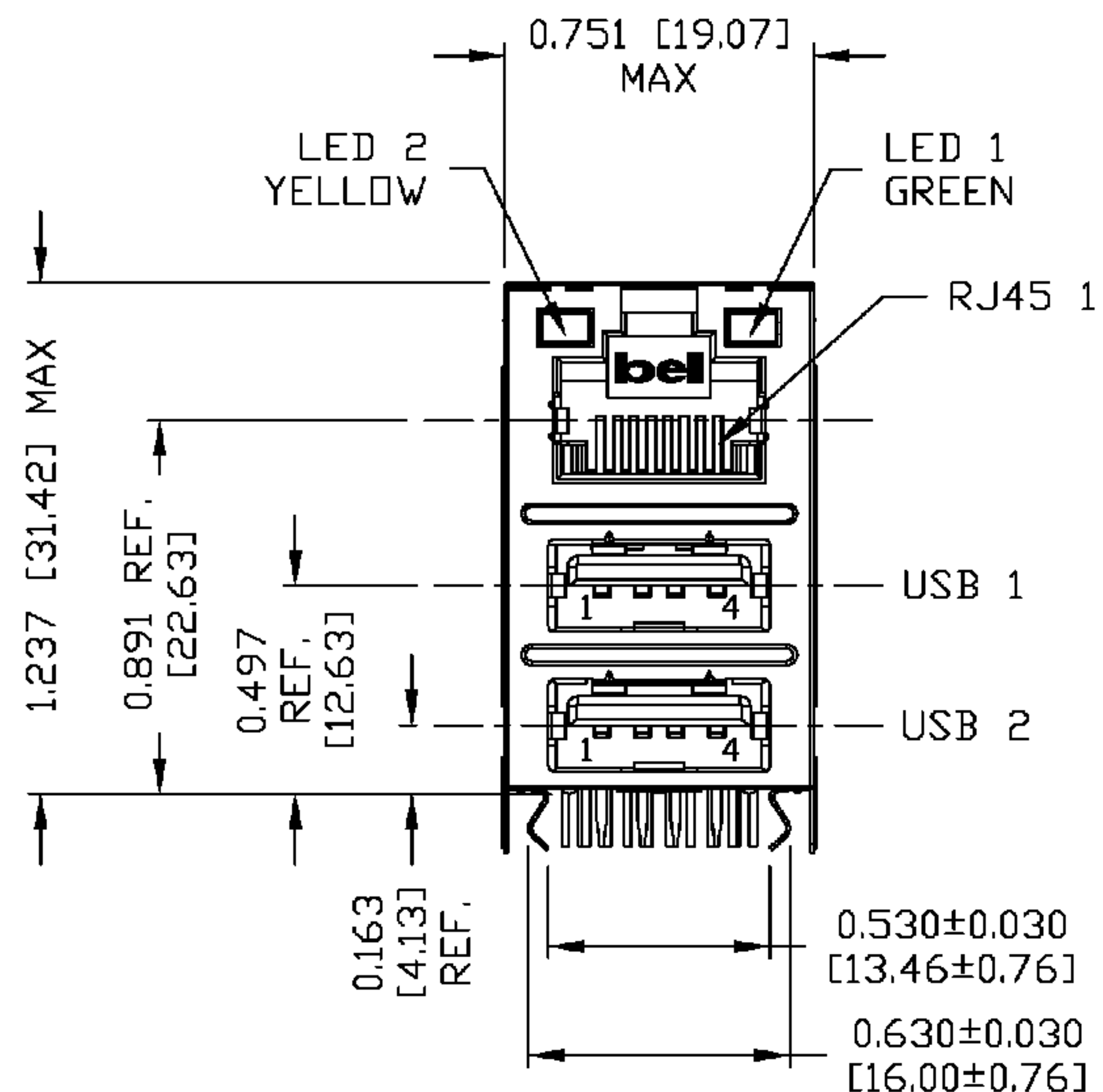


ORIGINATED BY	DATE	TITLE MagJack® Combo (Staggered pin)	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
CHUNG	04-12-06		C893-1DX1-E5	TOL. IN INCH		UNIT : INCH [mm]	REV. : B	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
DE	04-12-06		C8931DX1E5B.DWG	.XX			PAGE : 2	
			.XXX					





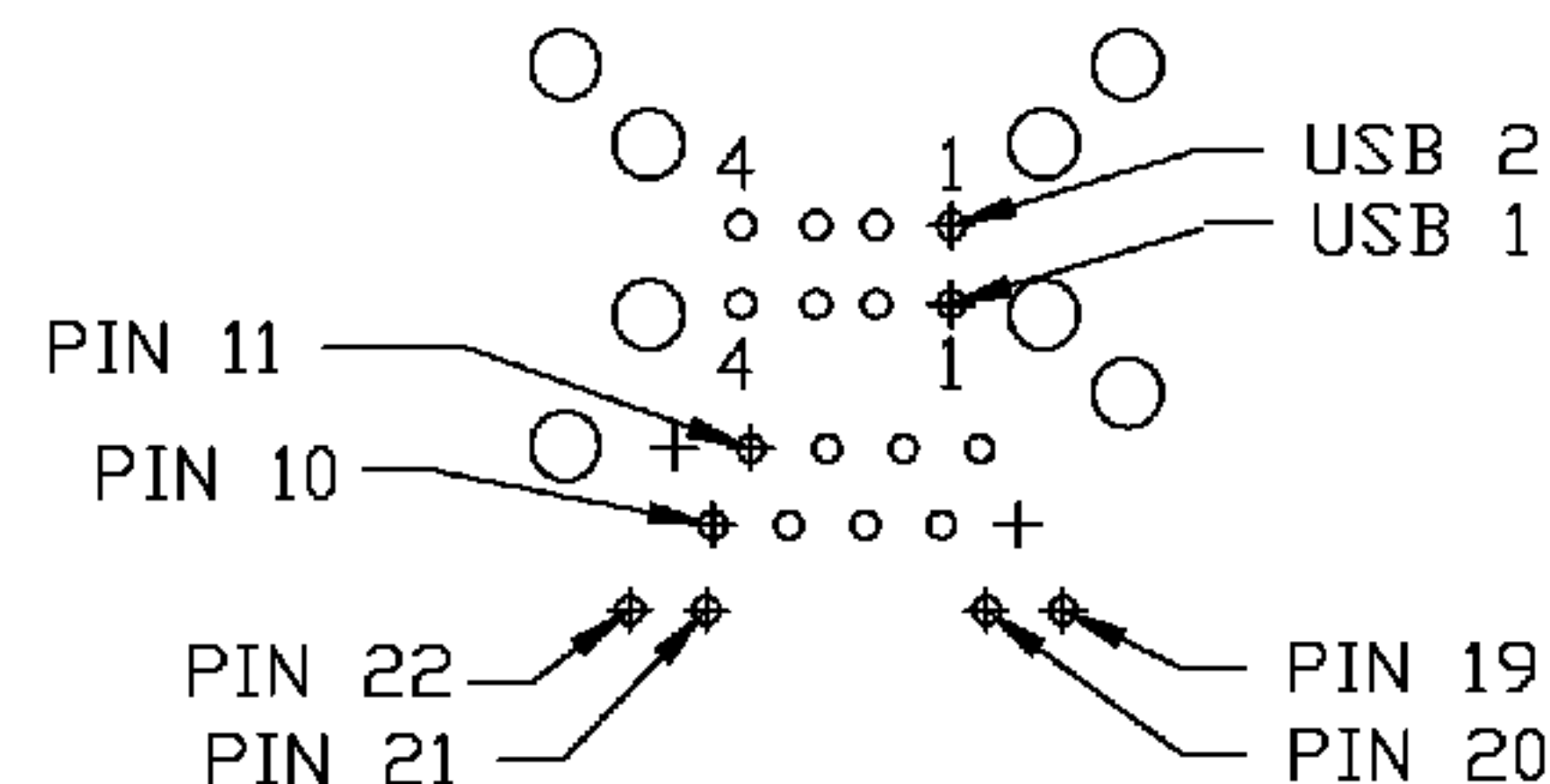
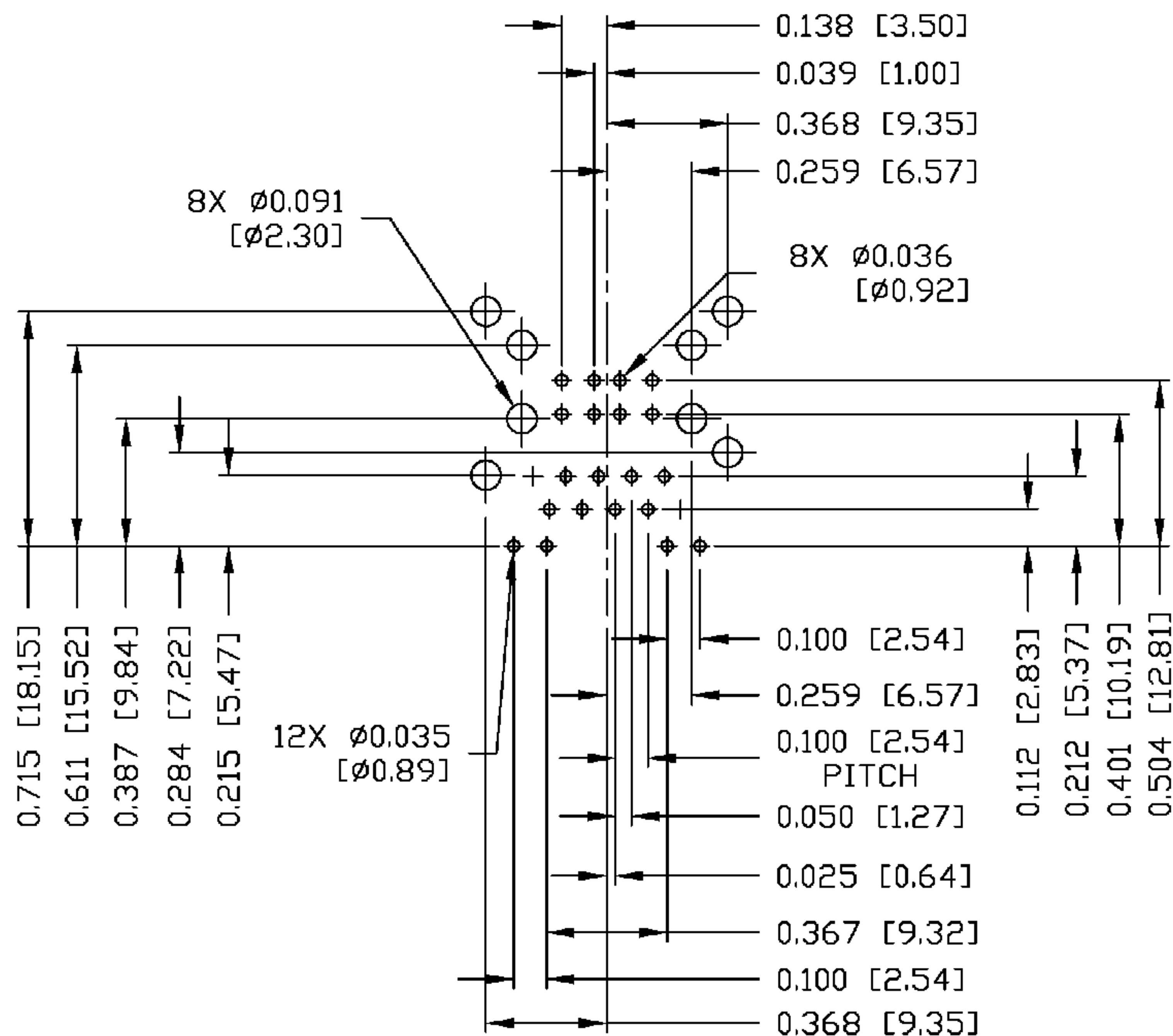
MECHANICAL SPECIFICATION



ORIGINATED BY QIN	DATE 04-12-06	TITLE MagJack® Combo (Staggered pin)	PART NO. / DRAWING NO. C893-1DX1-E5	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
DRAWN BY TING	DATE 04-12-06		FILE NAME C8931DX1E5B.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A ⊕	REV. : B SIZE : A4 PAGE : 3



Recommended PCB footprint Component Side



RJ45 MECHANICAL:

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

USB MECHANICAL:

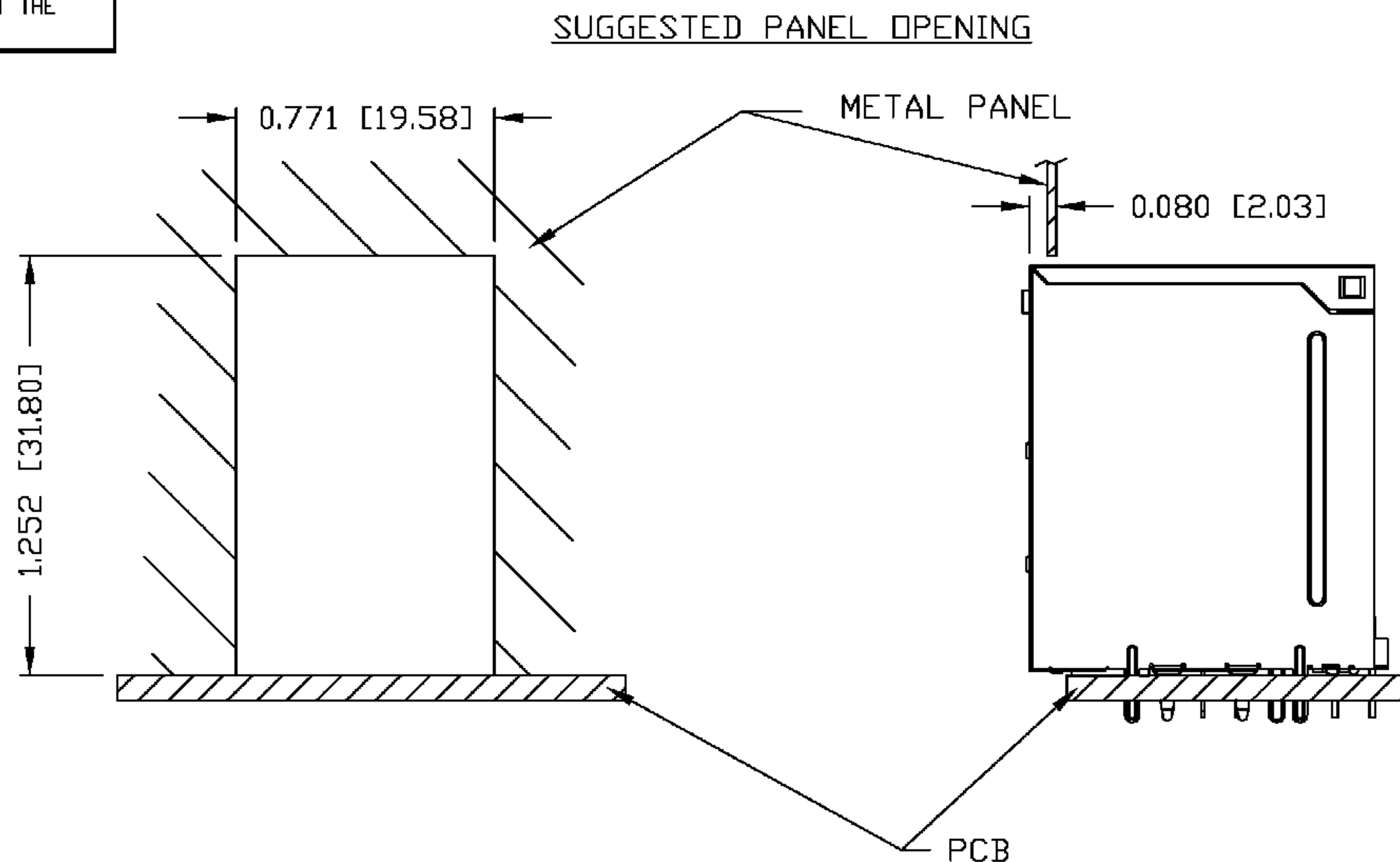
MATING FORCE: 35 NEWTONS MAXIMUM
UNMATING FORCE: 10 NEWTONS MINIMUM
CONTACTS: PHOSPHOR BRONZE
30 MICRO-INCH GOLD PLATING ON CONTACT
AREA AND TIN ON SOLDER TAIL.

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.	[] METRIC DIM. AS REFERENCE	
QIN	04-12-06	MagJack® Combo (Staggered pin)	C893-1DX1-E5	TOL. IN INCH	UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
TING	04-12-06		C8931DX1E5B.DWG	.XX		PAGE : 4
				.XXX	±0.004	





NOTE:

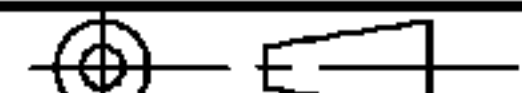
THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION. IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

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	
QIN	04-12-06	MagJack® Combo (Staggered pin)	C893-1DX1-E5	.X	UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A	SIZE : A4
TING	04-12-06		C8931DX1E5B.DWG	.XXX ±0.004		PAGE : 5