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RoHS
 2002/95/EC

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

ELECTRICAL CHARACTERISTICS @ 25°C

TURNS 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 0.3μH 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.

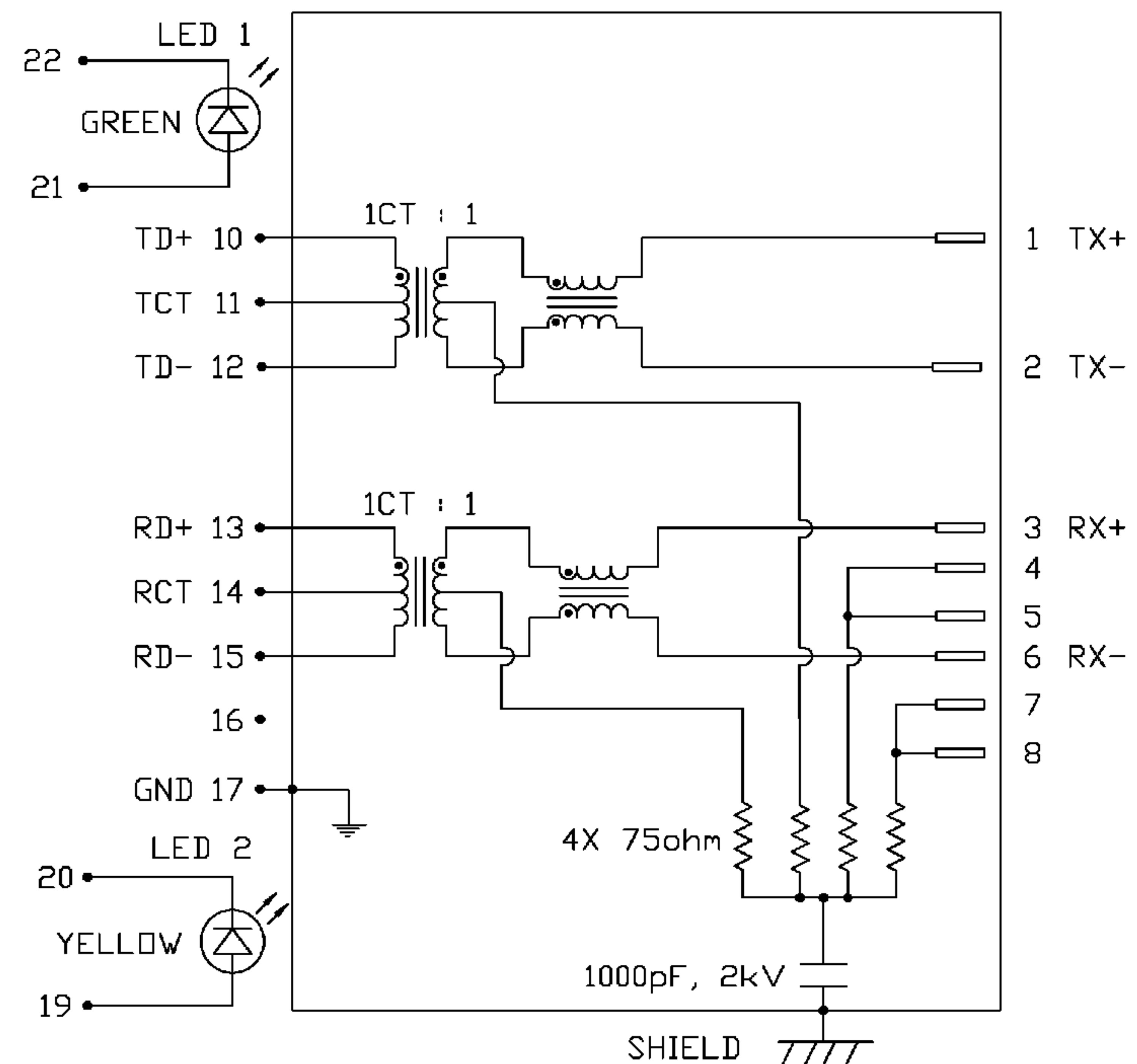
USB ELECTRICAL:

INSULATION RESISTANCE 1000 MEGAΩ (MIN)

CONTACT RESISTANCE 25 MILLI Ω (MAX)

DIELECTRIC WITHSTANDING 750 VAC

SCHEMATIC

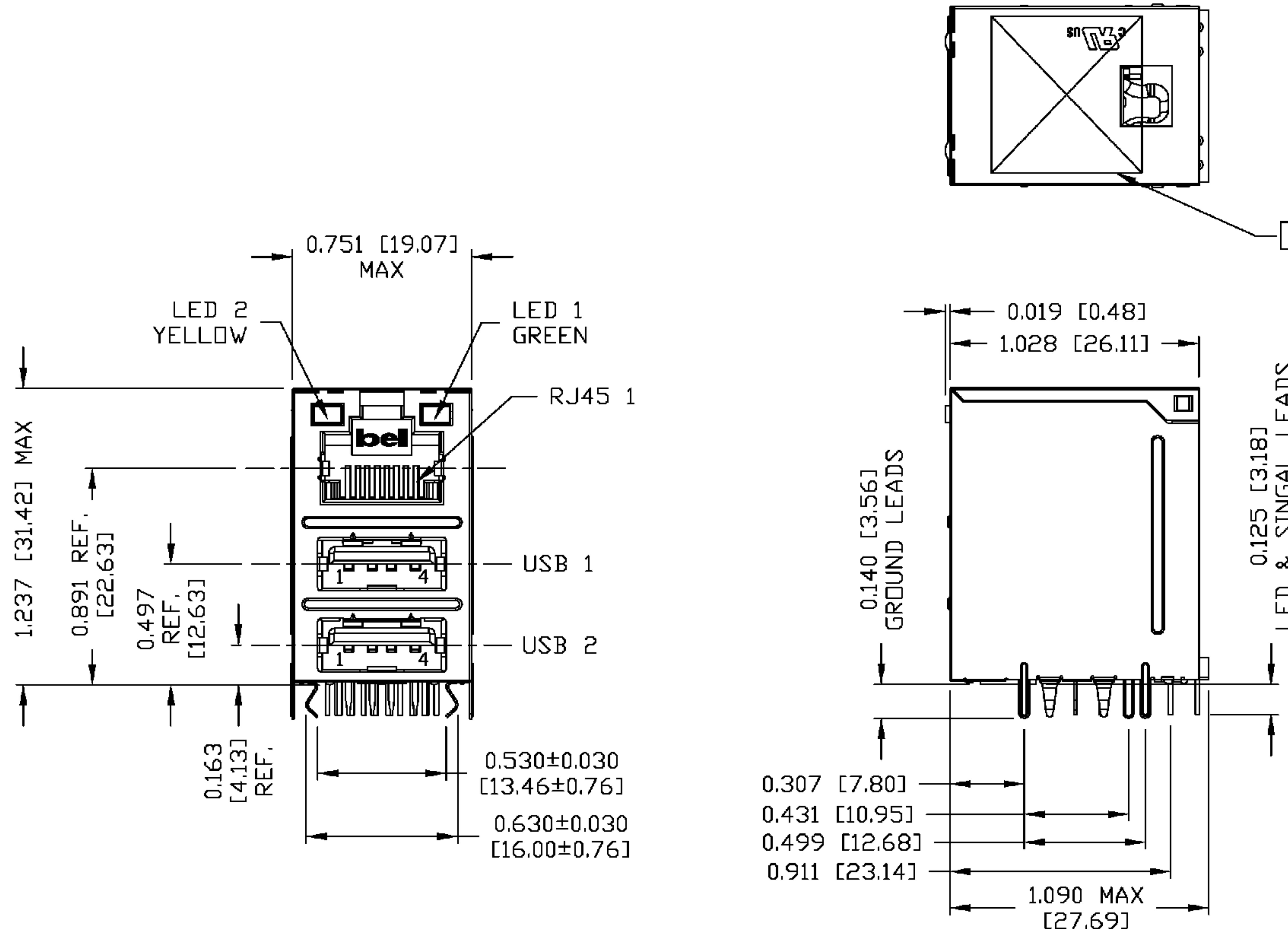


ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		bel
				FILE NAME	UNIT : INCH [mm]	REV. : B	SCALE : N/A	
CHUNG	04-12-06	MagJack® Combo (Staggered pin)	C893-1DX1-E5	C8931DX1E5B.DWG	.X			
DRAWN BY	DATE			XX				
DE	04-12-06			XXX				

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MECHANICAL SPECIFICATION



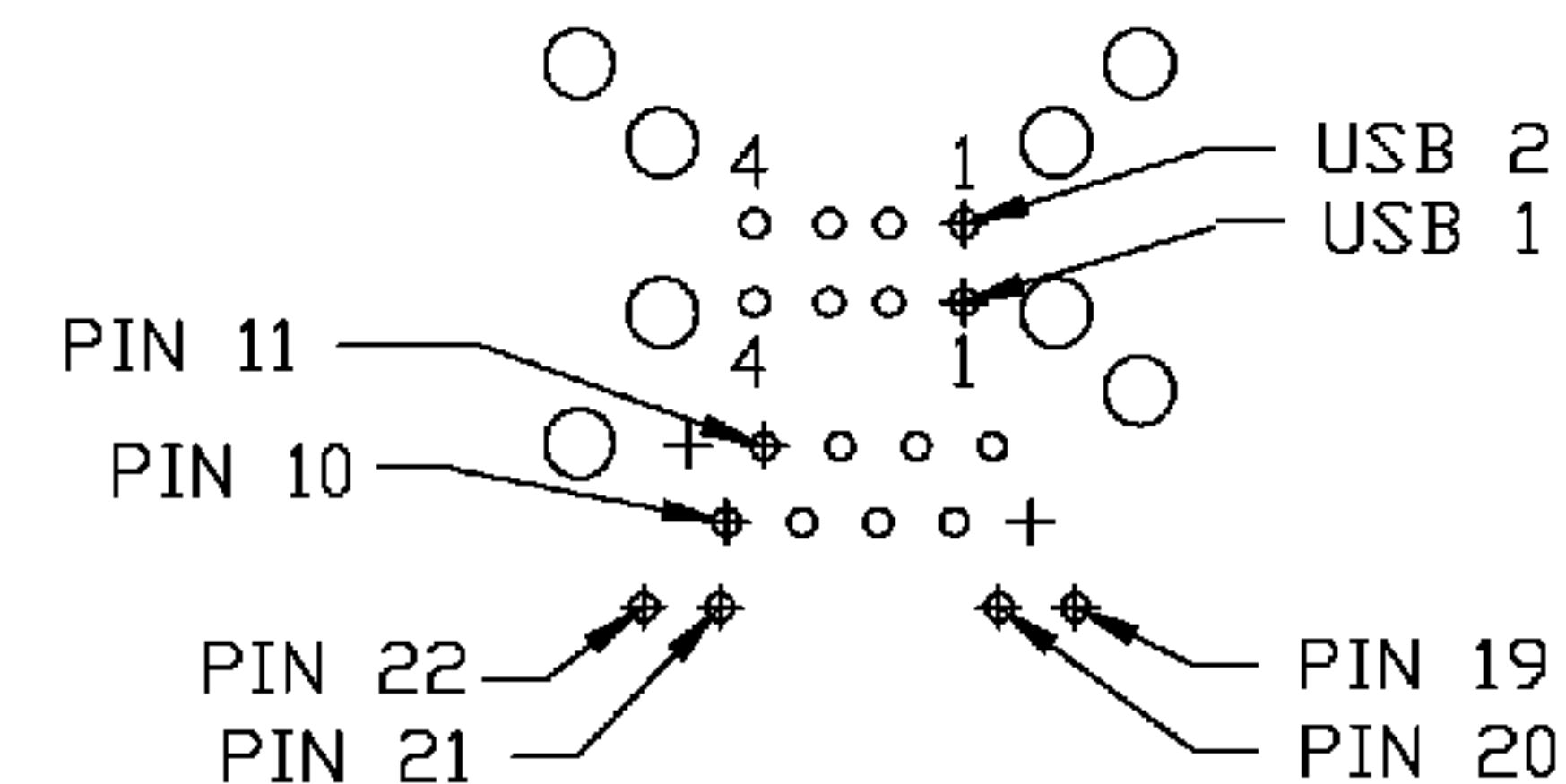
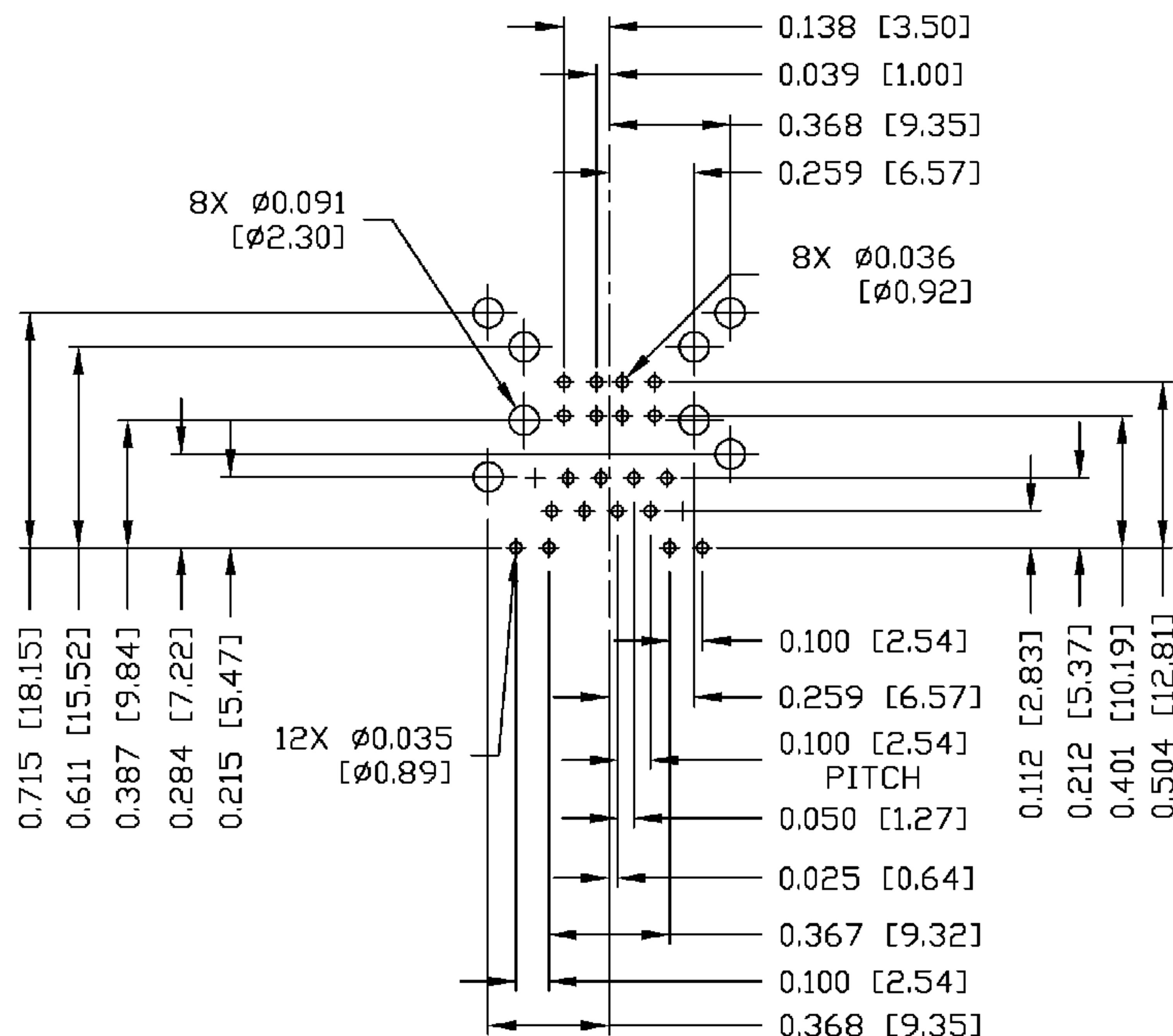
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	[] METRIC DIM. AS REFERENCE	
DRAWN BY	DATE			STANDARD DIM. TOL. IN INCH	UNIT : INCH [mm]
QIN	04-12-06	MagJack® Combo (Staggered pin)	C893-1DX1-E5	X	REV. : B
TING	04-12-06		FILE NAME C8931DX1E5B.DWG	XX	SCALE : N/A
				XXX	SIZE : A4
				±0.010	PAGE : 3

bel
COMPONENTS FOR A
CONNECTED
PLANET



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 RECOGNIZED - FILE #E196366 AND E169987.

RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

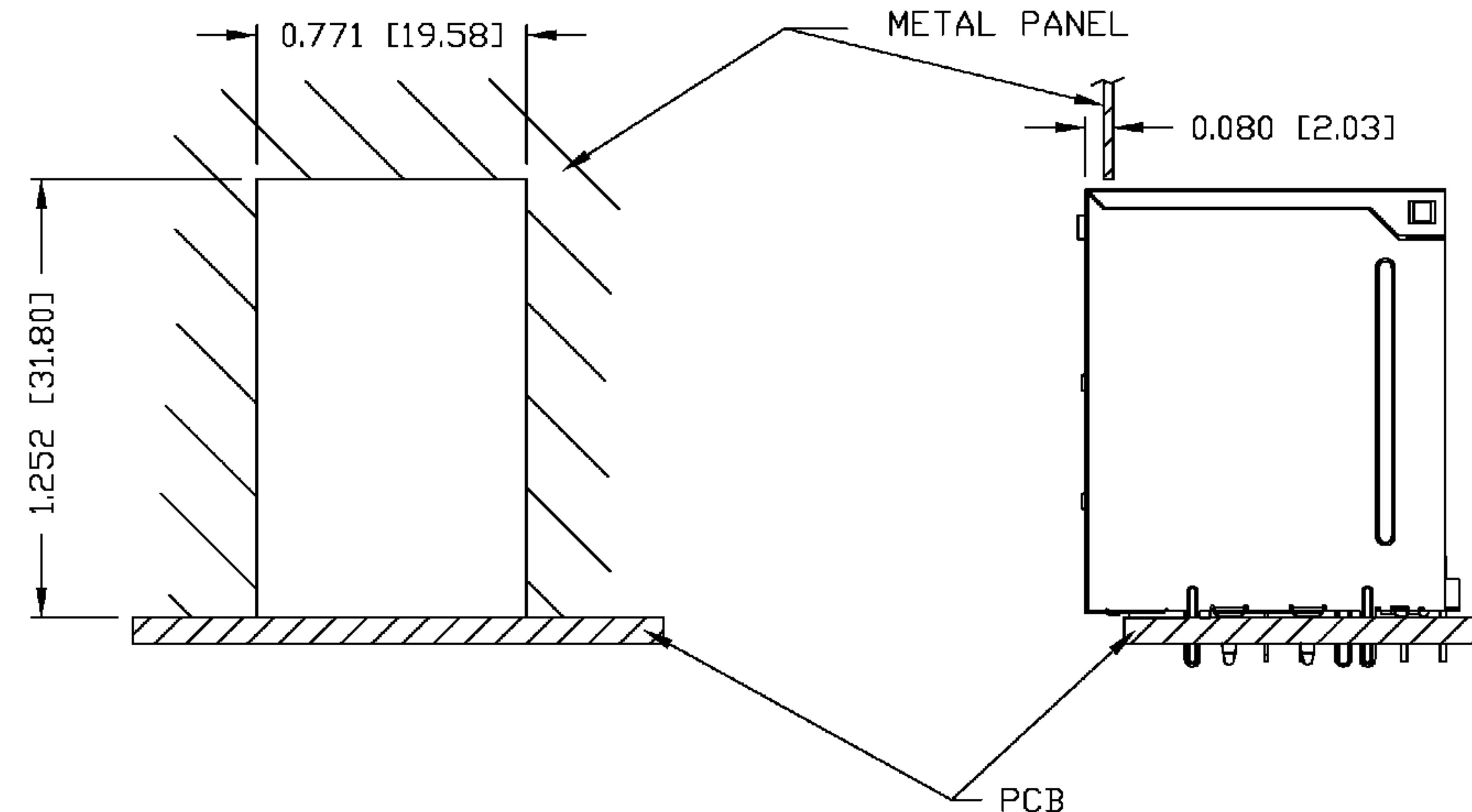
JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	[] METRIC DIM. AS REFERENCE		bel COMPONENTS FOR A CONNECTED PLANET
DRAWN BY	DATE		C893-1DX1-E5	STANDARD DIM. TOL. IN INCH	UNIT : INCH [mm]	
QIN	04-12-06		FILE NAME	.X		
TING	04-12-06	(Staggered pin)	C8931DX1E5B.DWG	.XX	SCALE : N/A	
				.XXX	SIZE : A4	
				±0.004	PAGE : 4	

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