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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

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.

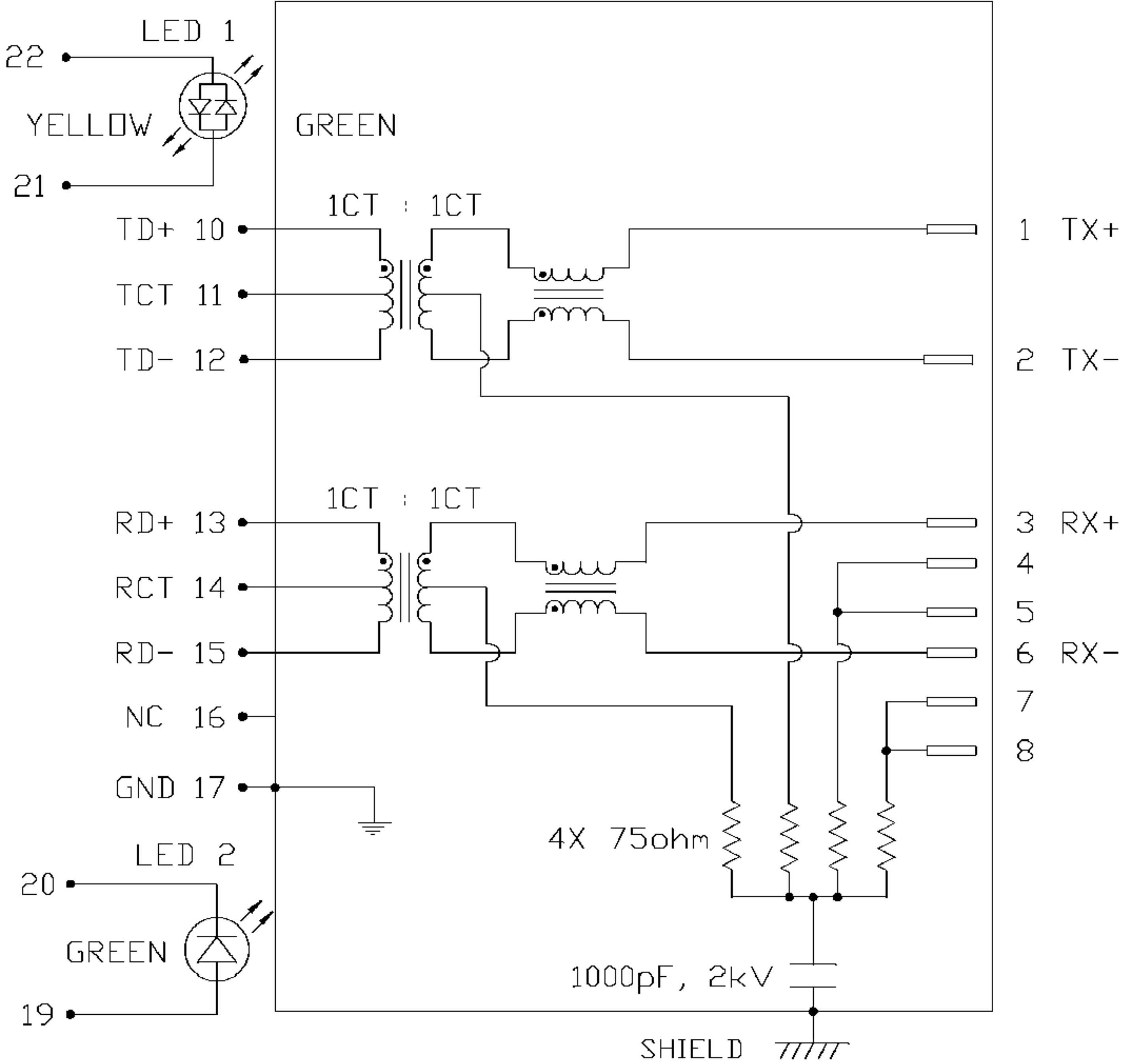
USB ELECTRICAL:

INSULATION RESISTANCE: 1000 MEGAΩ (MIN)
CONTACT RESISTANCE: 25 MILLIΩ (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
CHOW WANGCHUNG	10-27-07
DRAWN BY	DATE
LEE WEIDE	10-27-07

TITLE
MagJack® Combo (Staggered pin)

PART NO. / DRAWING NO.
C893-1L1T-E5
FILE NAME
C893-1L1T-E5_A.DWG

STANDARD DIM.	TOL. IN INCH
.X	
.XX	
.XXX	

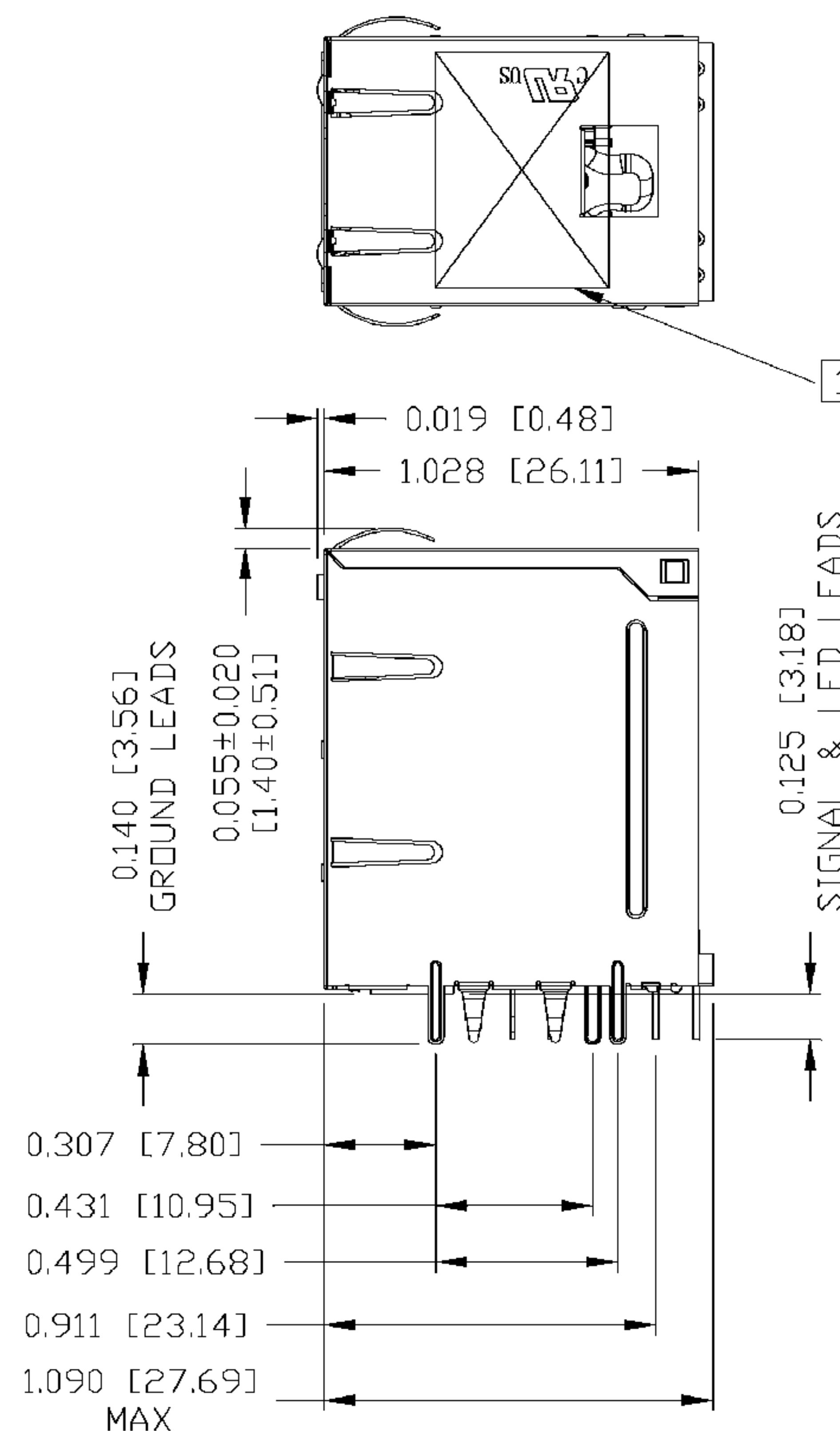
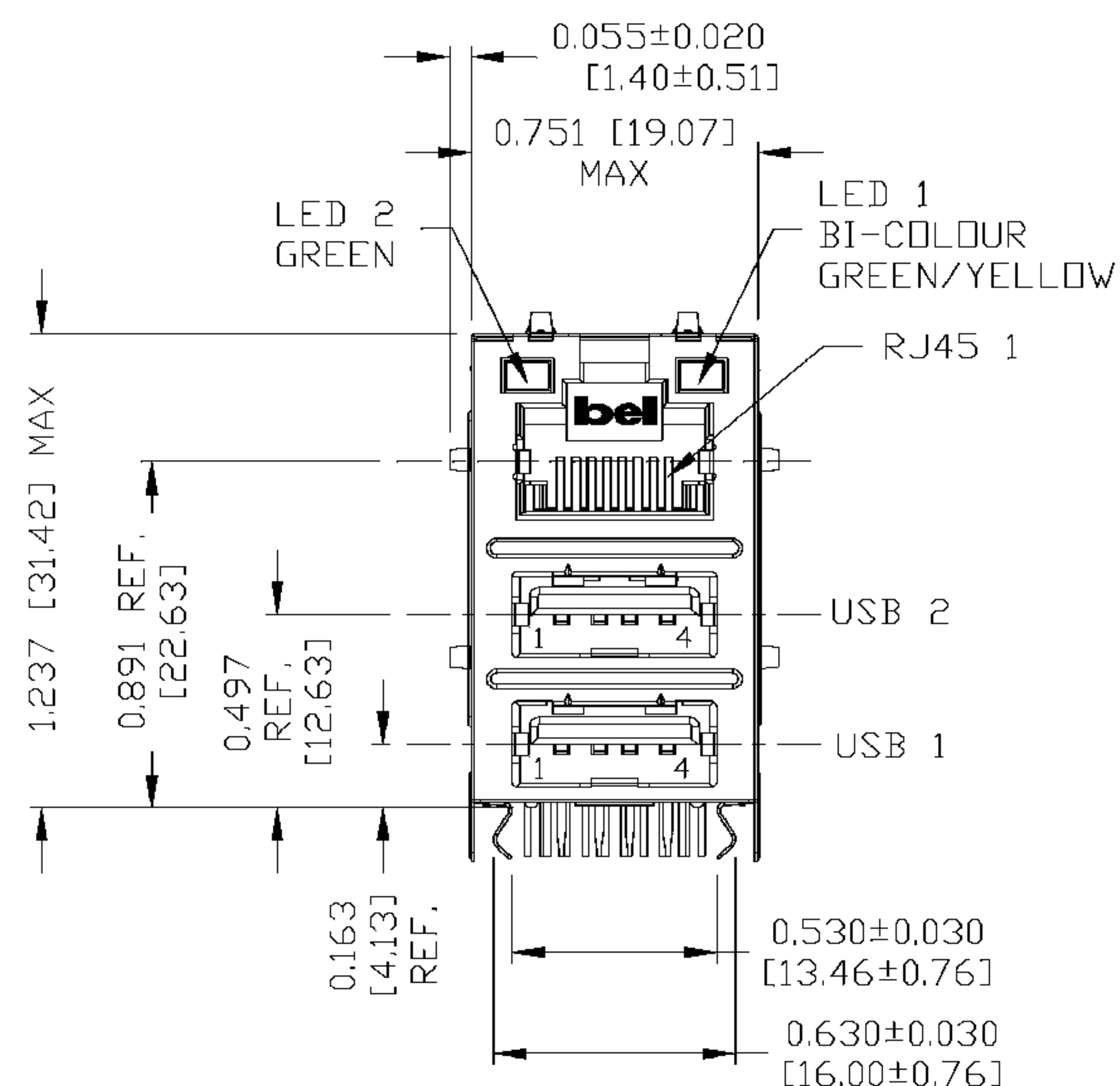
[] METRIC DIM. AS REFERENCE	
UNIT : INCH [mm]	REV. : A
SCALE : N/A	SIZE : A4
	PAGE : 2



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MECHANICAL SPECIFICATION

RoHS
2002/95/EC



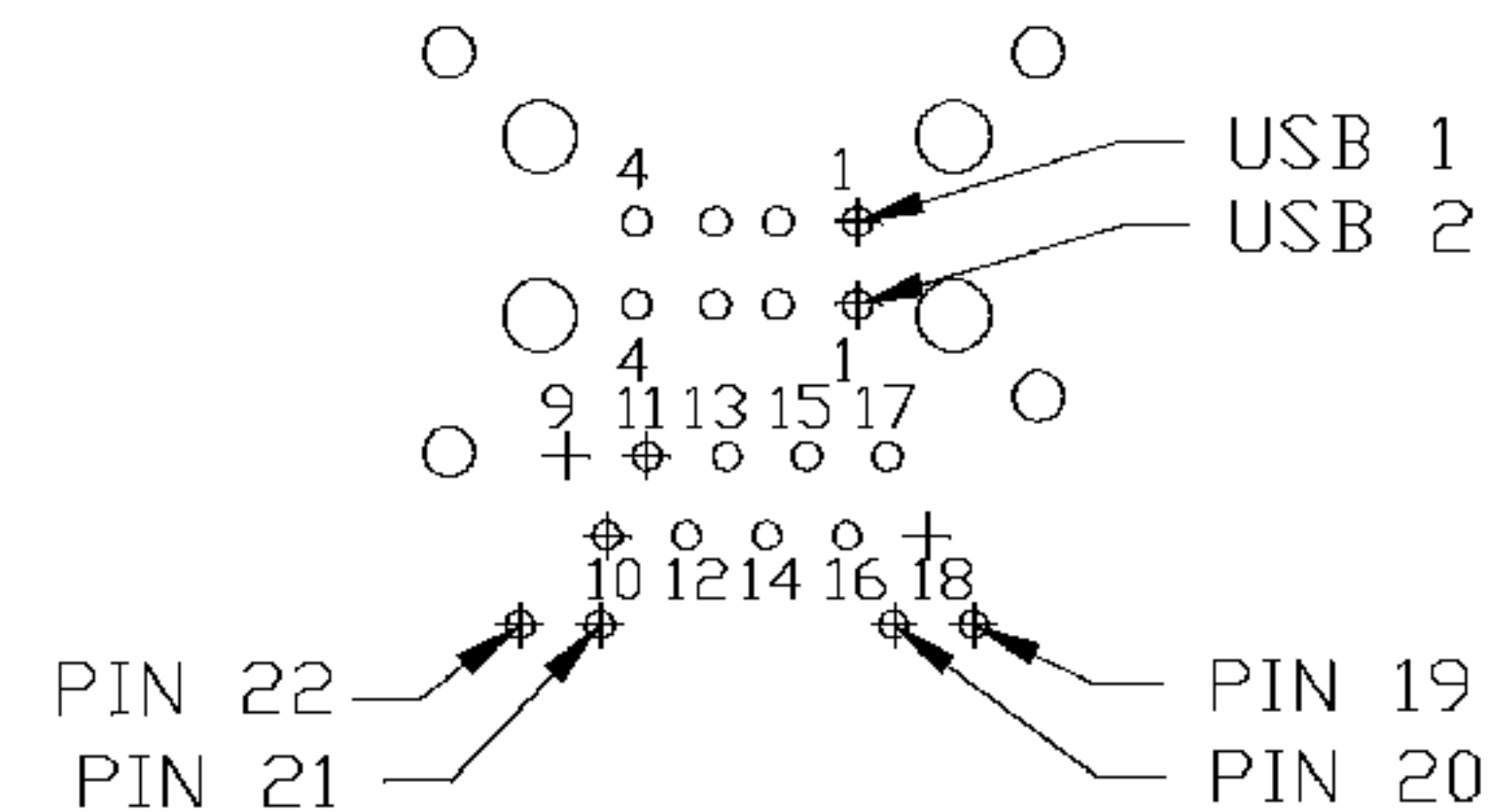
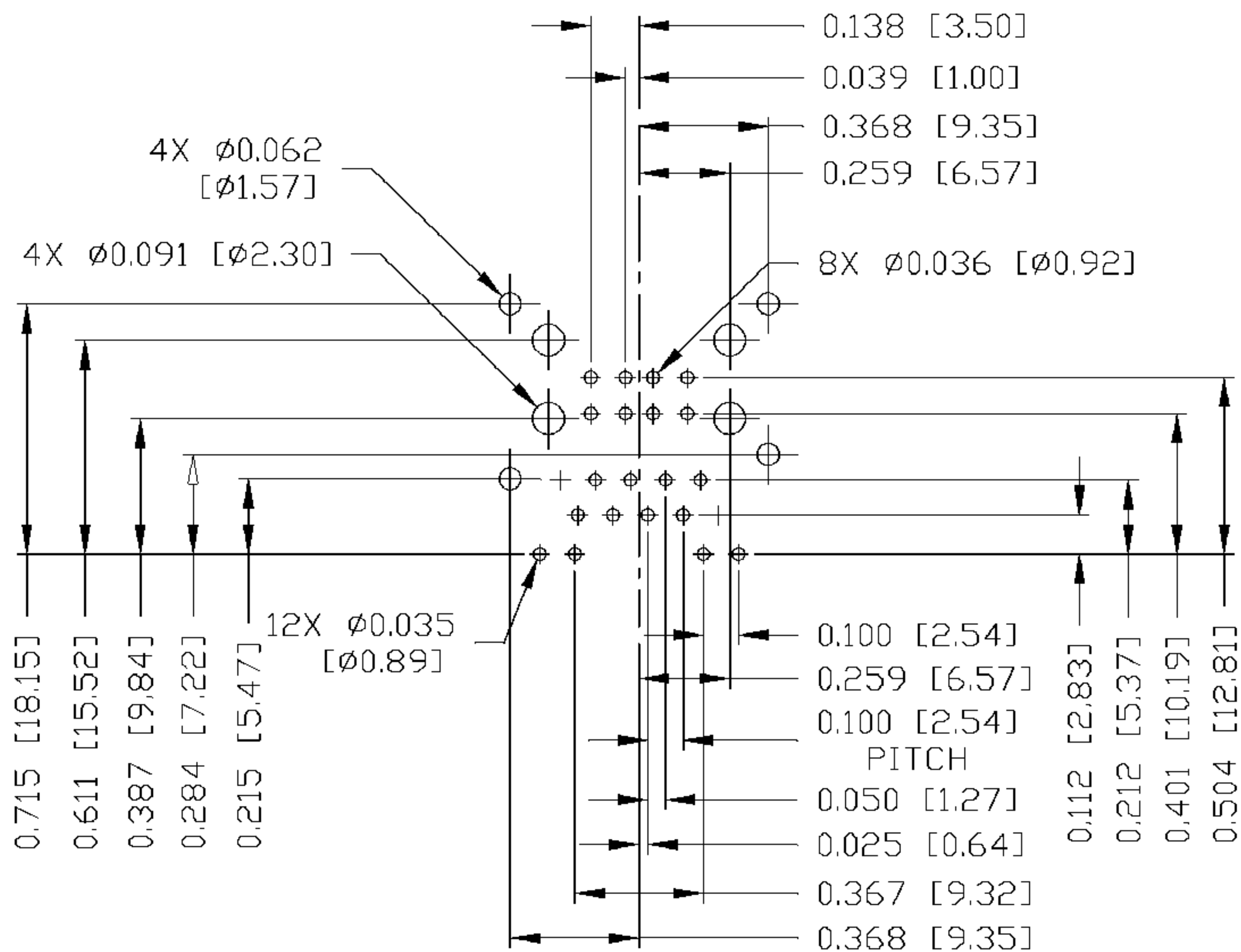
ORIGINATED BY CHEN BILL	DATE 10-27-07	TITLE MagJack® Combo (Staggered pin)	PART NO. / DRAWING NO. C893-1L1T-E5	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY LIU QIN	DATE 10-27-07		FILE NAME C893-1L1T-E5_A.DWG	.X		UNIT : INCH [mm]	REV. : A	
				.XX		SCALE : N/A	SIZE : A4	
				.XXX	±0.010		PAGE : 3	

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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
CONTACT: 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.

c US UL RECOGNIZED - FILE #E196366 AND E169987.

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

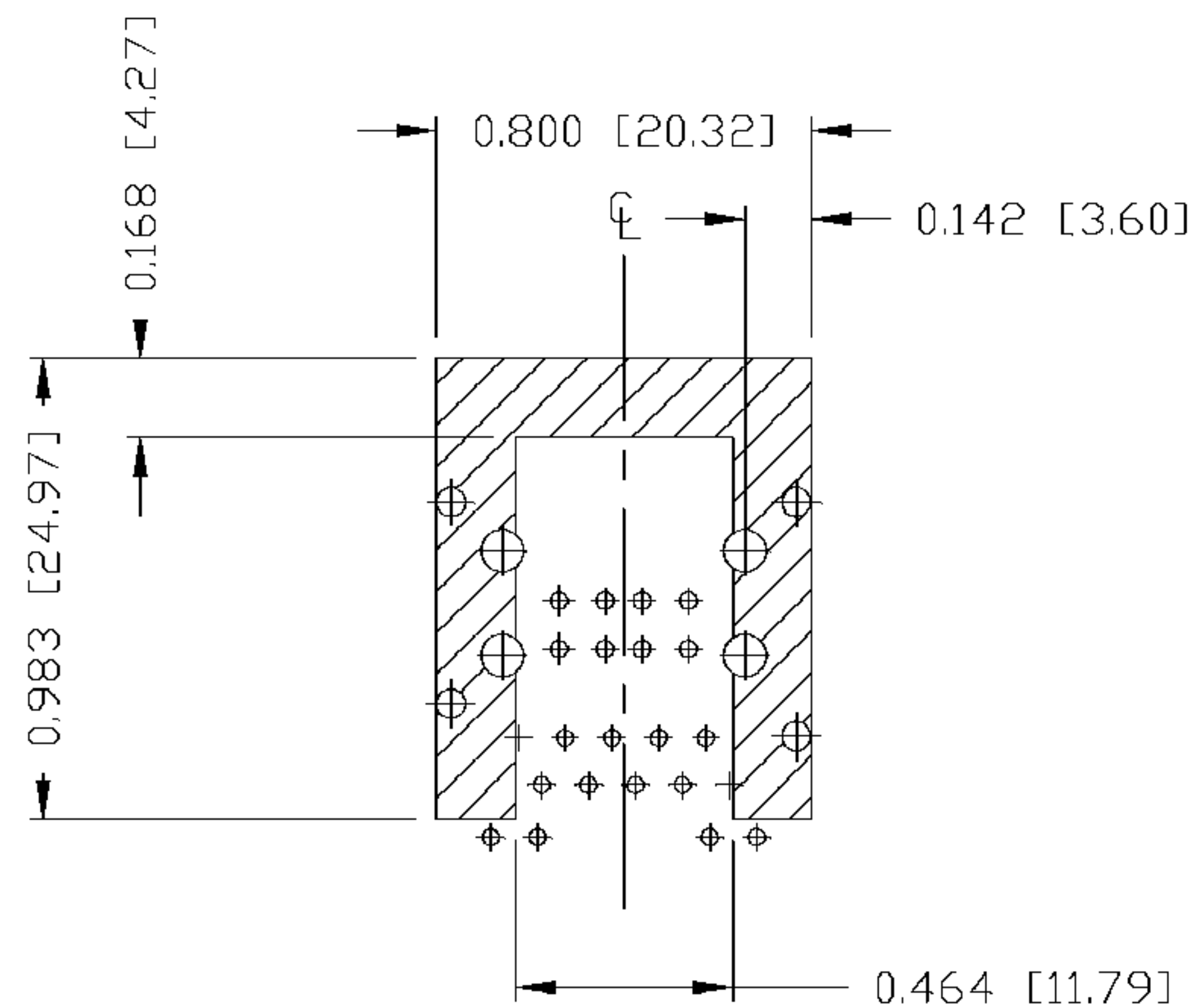
JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

ORIGINATED BY CHEN BILL	DATE 10-27-07	TITLE MagJack® Combo (Staggered pin)	PART NO. / DRAWING NO. C893-1L1T-E5	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
DRAWN BY LIU QIN	DATE 10-27-07		FILE NAME C893-1L1T-E5_A.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A 	REV. : A SIZE : A4 PAGE : 4



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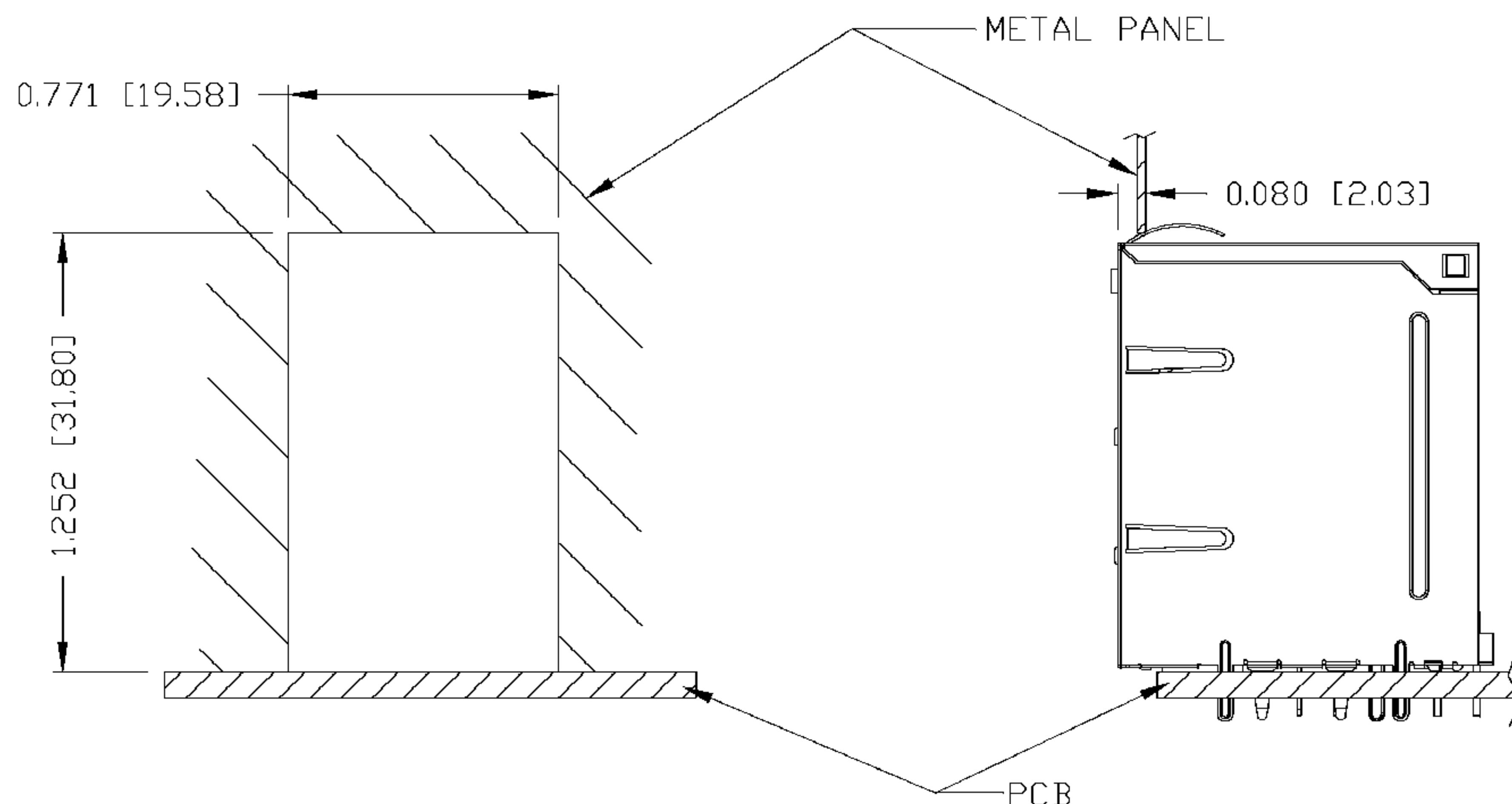
THE SHADED AREA ON THE CUSTOMER BOARD ARE
RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR
COMPONENT PAD.

ORIGINATED BY	DATE	TITLE gigabit MagJack® Combo (Staggered pin, 8 cores)	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET 
CHEN BILL	10-27-07		C893-1L1T-E5	TOL. IN INCH		UNIT : INCH [mm] REV. : A		
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A		
				.XX		SIZE : A4		
				.XXX		±0.004	 PAGE : 5	
LIU QIN	10-27-07	C893-1L1T-E5_A.DWG						

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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)

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DRAWN BY LIU QIN	DATE 10-27-07		FILE NAME C893-1L1T-E5_A.DWG	.X		UNIT : INCH [mm]	REV. : A
				.XX		SCALE : N/A	SIZE : A4
				.XXX	±0.004		PAGE : 6


COMPONENTS FOR A
CONNECTED
PLANET

