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LED1 POLARITY			LED2 POLARITY		
PIN 13	PIN 14	COLOR	PIN 15	PIN 16	COLOR
-	+	GREEN	+	-	YELLOW
			-	+	GREEN

RoHS
2002/95/EC



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%

CL @ 100kHz/100mVRMS

8mA DC BIAS	350µH MIN.
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INS. LOSS

0.1MHz TO 1MHz	-1.1 dB MAX
1MHz TO 65MHz	-0.5 dB MAX
65MHz TO 100MHz	-0.8 dB MAX
100MHz TO 125MHz	-1.2 dB MAX

RET. LOSS (MIN)

0.5MHz-40MHz	-18 dB
40MHz-100MHz	-12+20LOG(f/80MHz) dB

CROSS TALK

100kHz - 100MHz	-33+20LOG(f/100MHz)dB MIN
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CM TO CM REJ

100kHz - 100MHz	-30 dB MIN
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CM TO DM REJ

100kHz - 100MHz	-35 dB MIN
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HIPOT (Isolation Voltage): 1500 Vrms

100% OF PRODUCT TESTED IN PRODUCTION

TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS

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 GREEN 2.2V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.

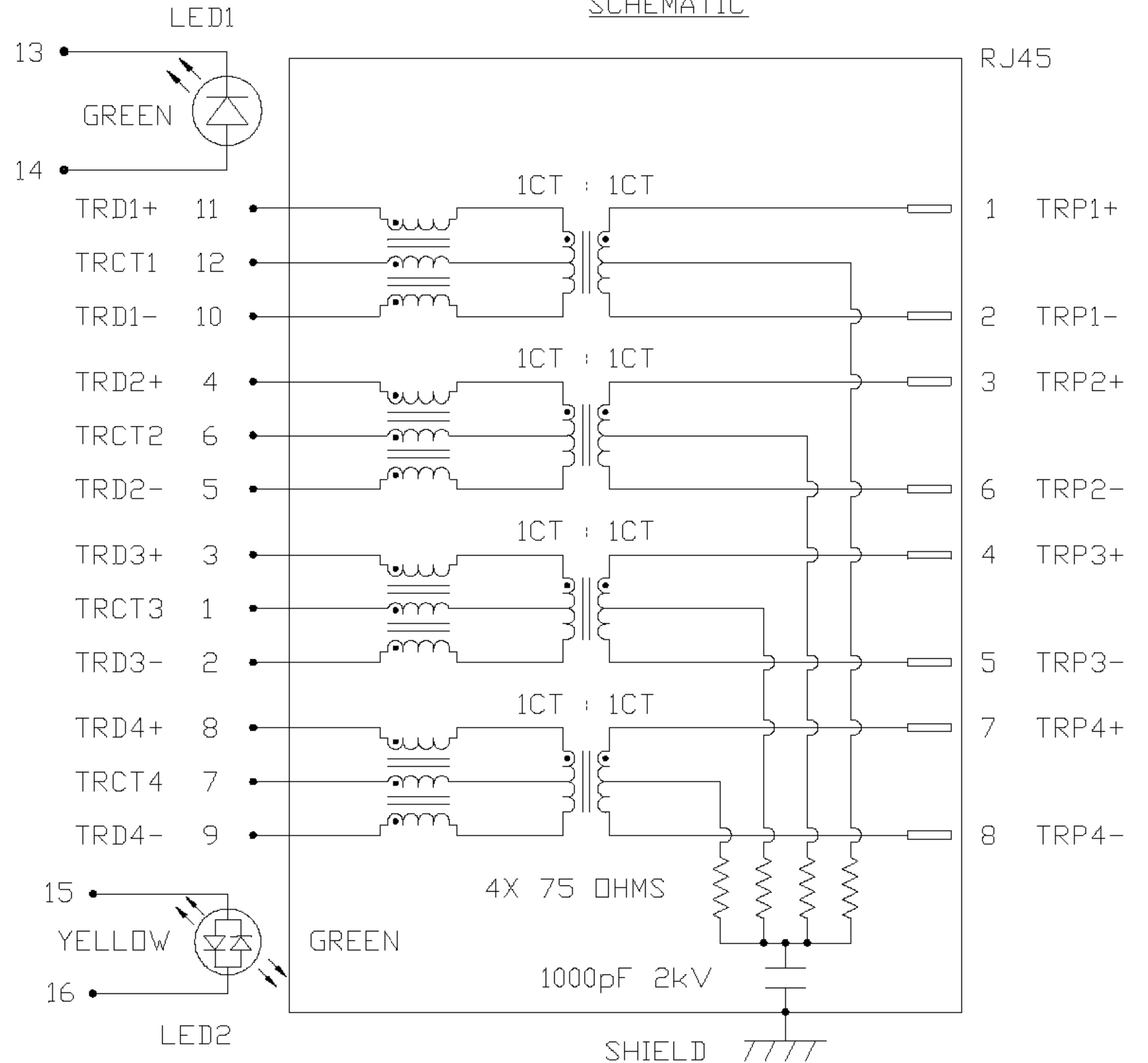
USB ELECTRICAL:

INSULATION RESISTANCE: 1000 MEGAΩ(MIN)

CONTACT RESISTANCE: 25 MILLIΩ(MAX)

DIELECTRIC WITHSTANDING: 750 VAC

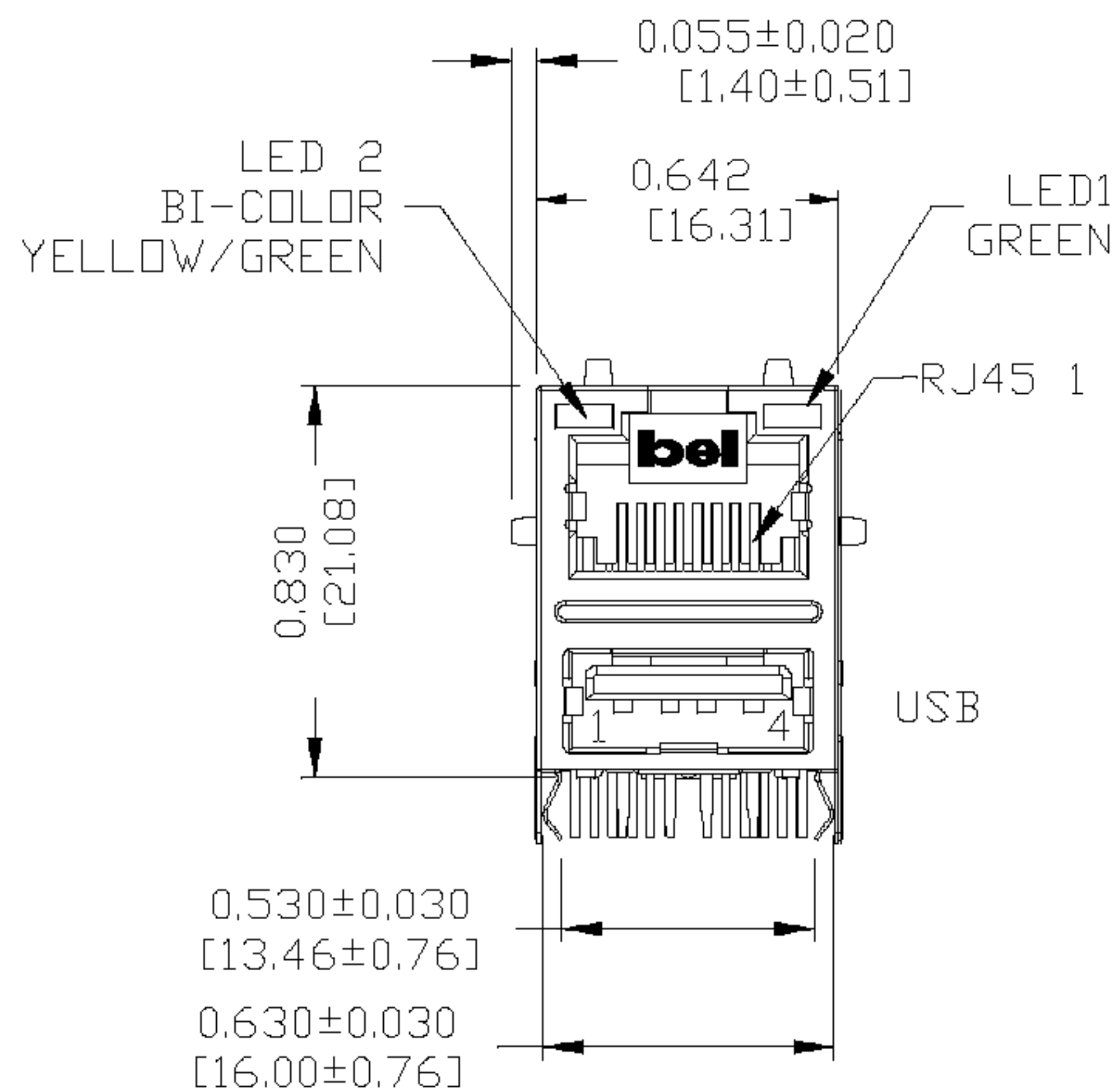
SCHEMATIC



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	
WC CHUNG	06-21-07	gigabit MagJack® Combo (single USB, 8 cores) 0821-1K1T-43-F	08211K1T43-F	TOL. IN INCH	UNIT : INCH [mm]	REV. : A
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
WEI DE LEE	06-21-07		08211K1T43-F_A.DWG	.XX		PAGE : 2
				.XXX		

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MECHANICAL SPECIFICATION

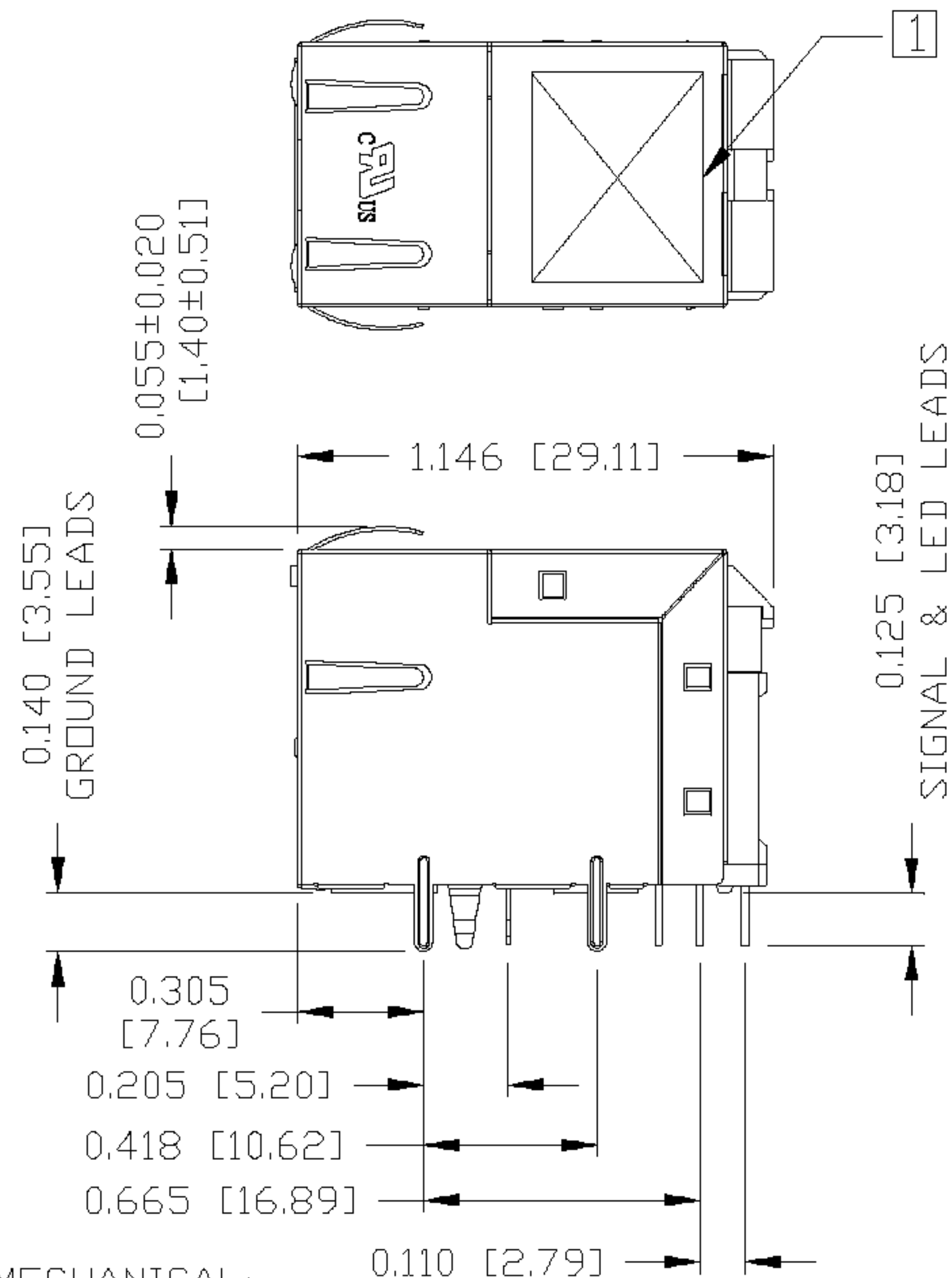


RJ45 MECHCNICAL:

PLASTIC HOUSING: THERMOPLASTIC PBT
FLAMMABILITY RATING UL 94V-0
CONTACT PLATING: 30 MICRO-INCH HARD GOLD PLATING
PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)

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

JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.



USB MECHANICAL:

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

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

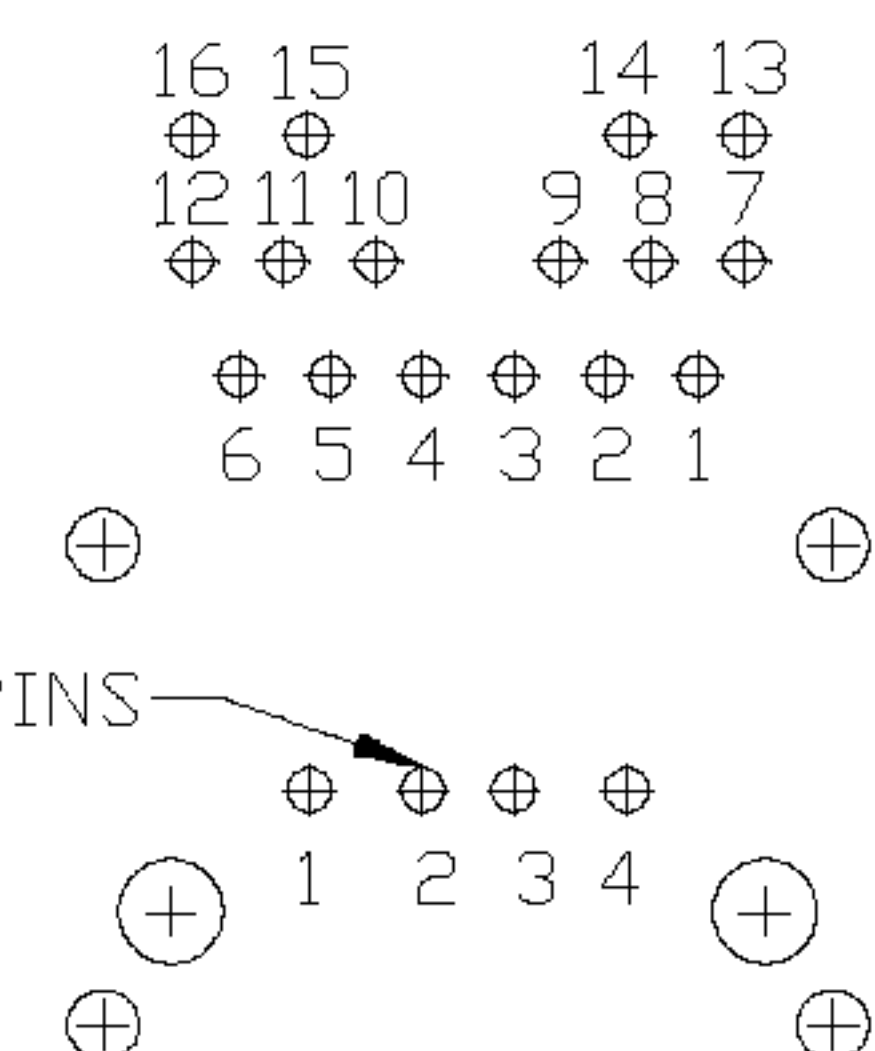
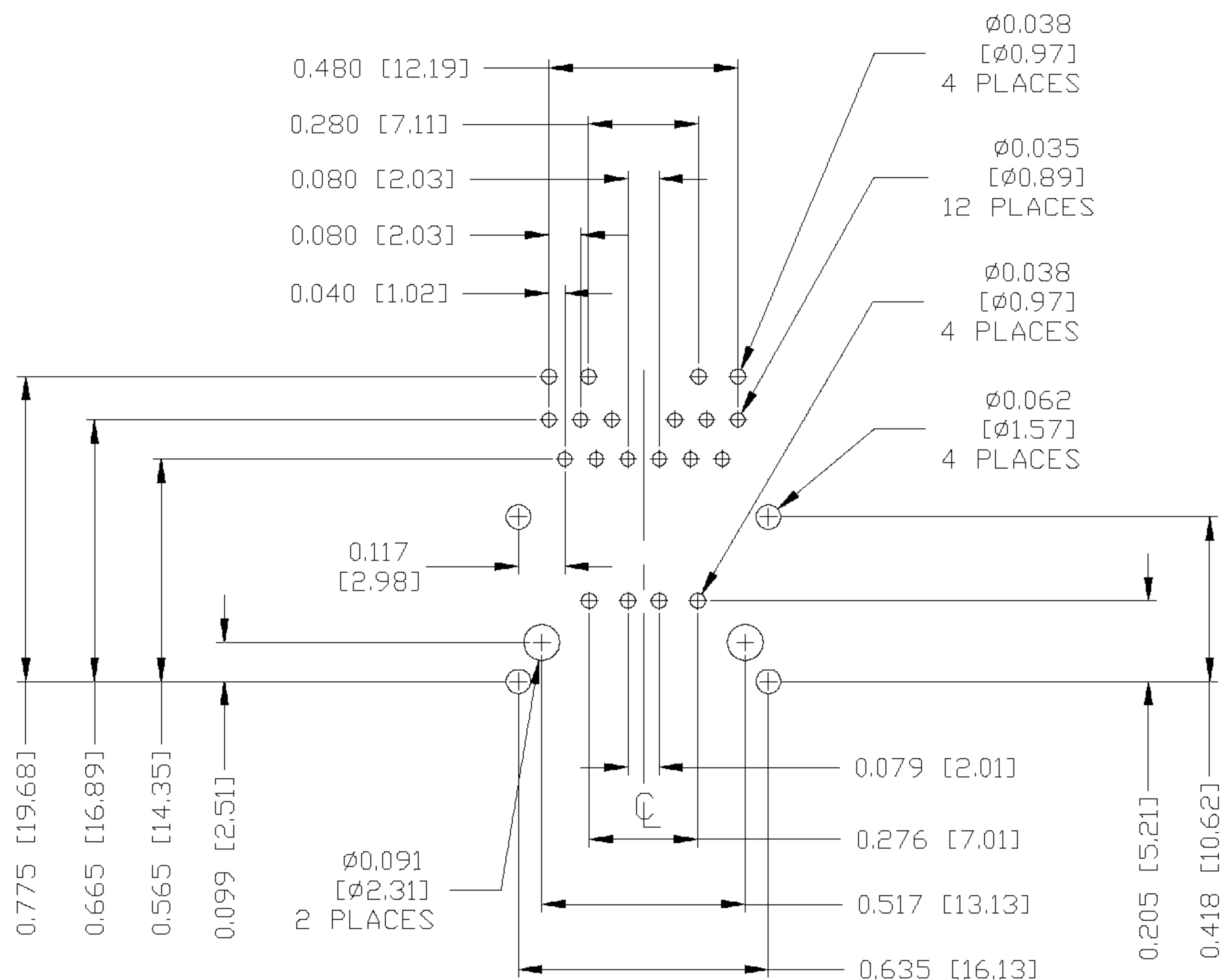


UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY	DATE	TITLE gigabit MagJack® Combo (single USB, 8 cores) 0821-1K1T-43-F	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
LIU QIN	06-21-07		08211K1T43-F	TOL. IN INCH		UNIT : INCH [mm]	REV. : A	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
CHEN TING	06-21-07		08211K1T43-F_A.DWG	.XX				
			.XXX	±0.010			PAGE : 3	

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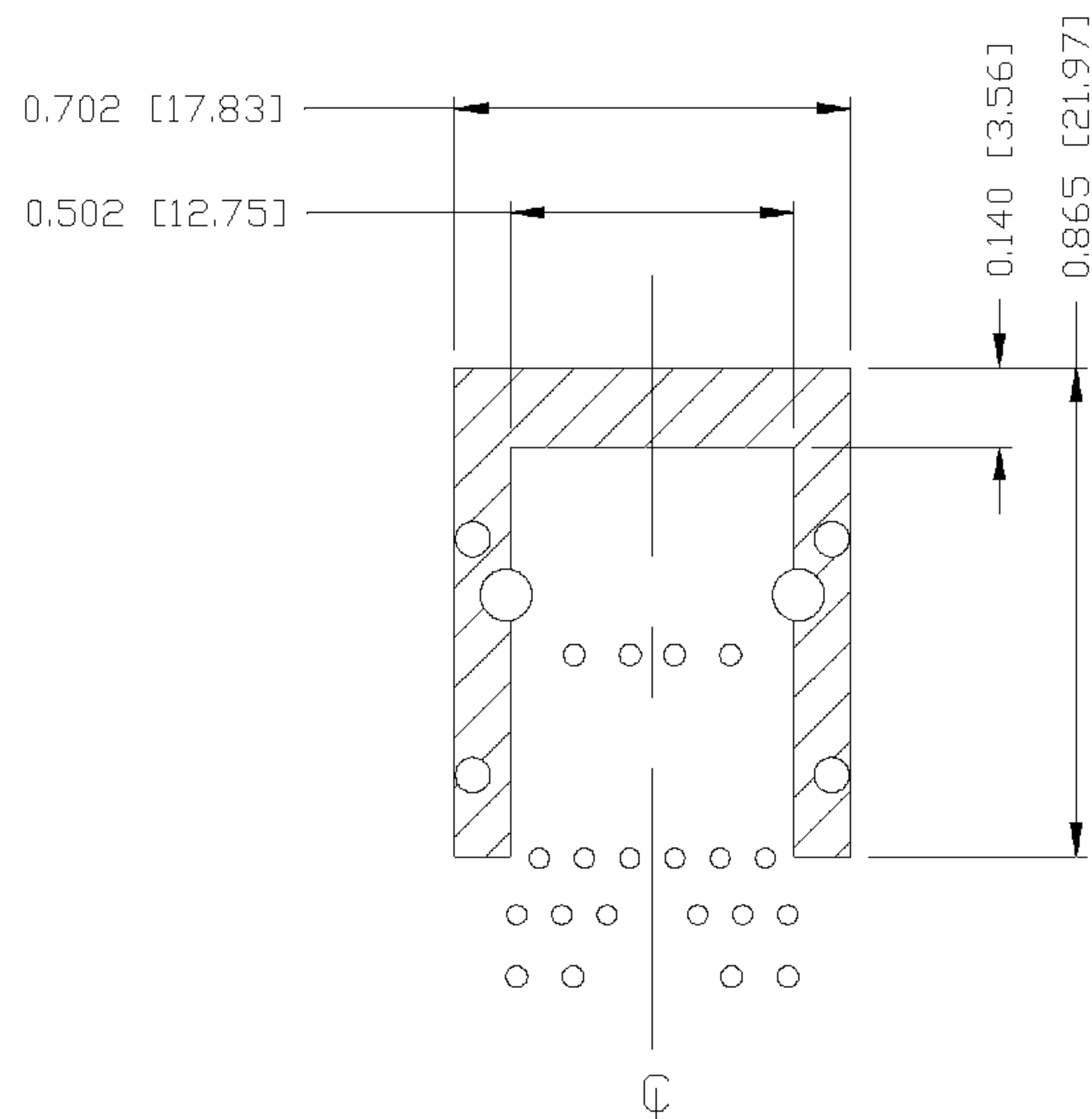
RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



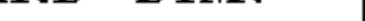
ORIGINATED BY LIU QIN	DATE 06-21-07	TITLE gigabit MagJack® Combo (single USB, 8 cores) 0821-1K1T-43-F	PART NO. / DRAWING NO. 08211K1T43-F		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
			FILE NAME 08211K1T43-F_A.DWG		.X		UNIT : INCH [mm]	REV. : A
DRAWN BY CHEN TING	DATE 06-21-07				.XX		SCALE : N/A	SIZE : A4
					.XXX	±0.004		PAGE : 4



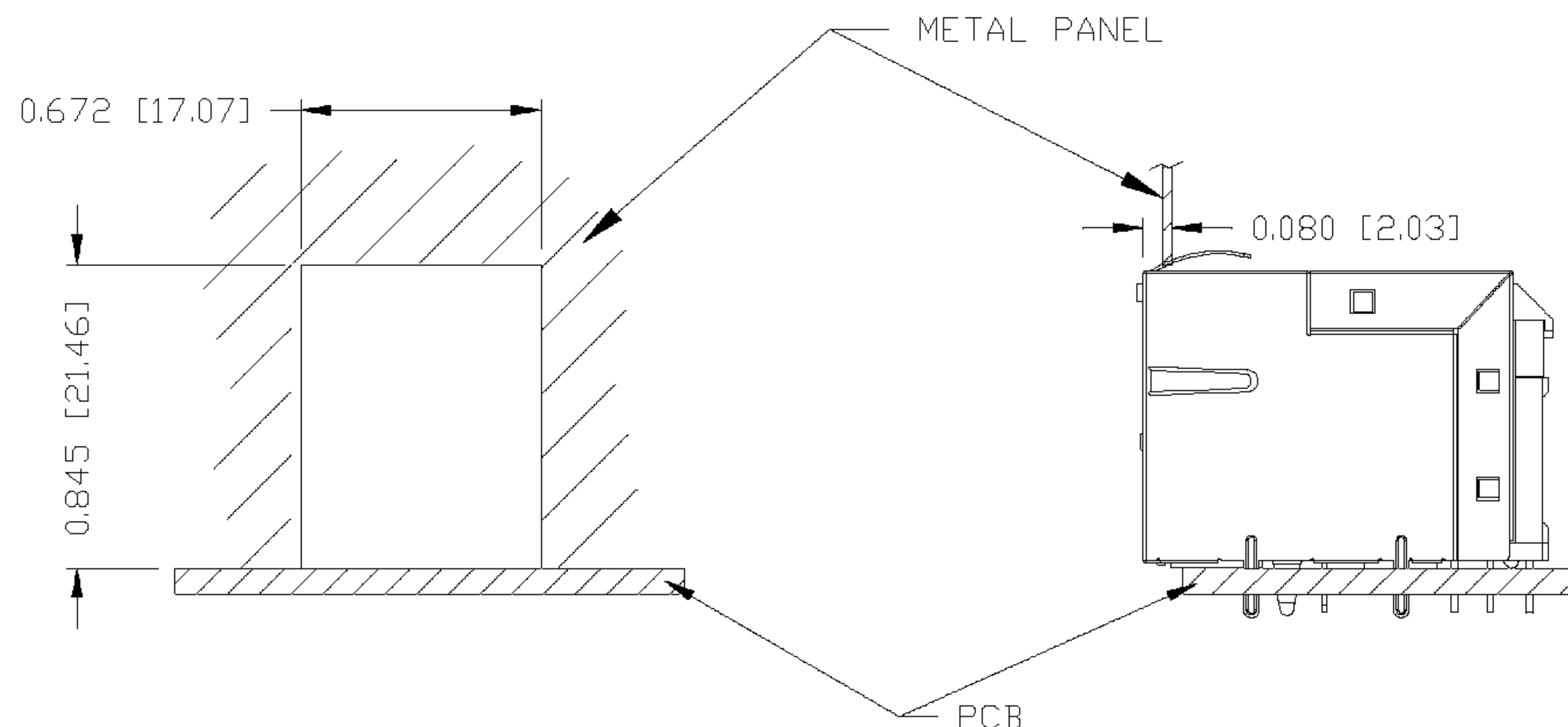
RoHS
2002/95/EC



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

ORIGINATED BY LIU QIN	DATE 06-21-07	TITLE gigabit MagJack® Combo (single USB, 8 cores) 0821-1K1T-43-F	PART NO. / DRAWING NO. 08211K1T43-F	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
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				.XX		SCALE : N/A	SIZE : A4	
				.XXX	±0.004		PAGE : 5	

SUGGESTED PANEL OPENING



NOTES:

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 : 0200-0148-48 (TOP)

0200-0148-49 (BOTTOM)

PACKING QUANTITY : 60 PCS FINISHED GOODS PER TRAY

8 TRAYS (480 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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CHEN TING	06-21-07		08211K1T43-F_A.DWG	.XXX ±0.004	⊕ — E —	PAGE : 6