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

PRELIMINARY

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 or 2250 VDC
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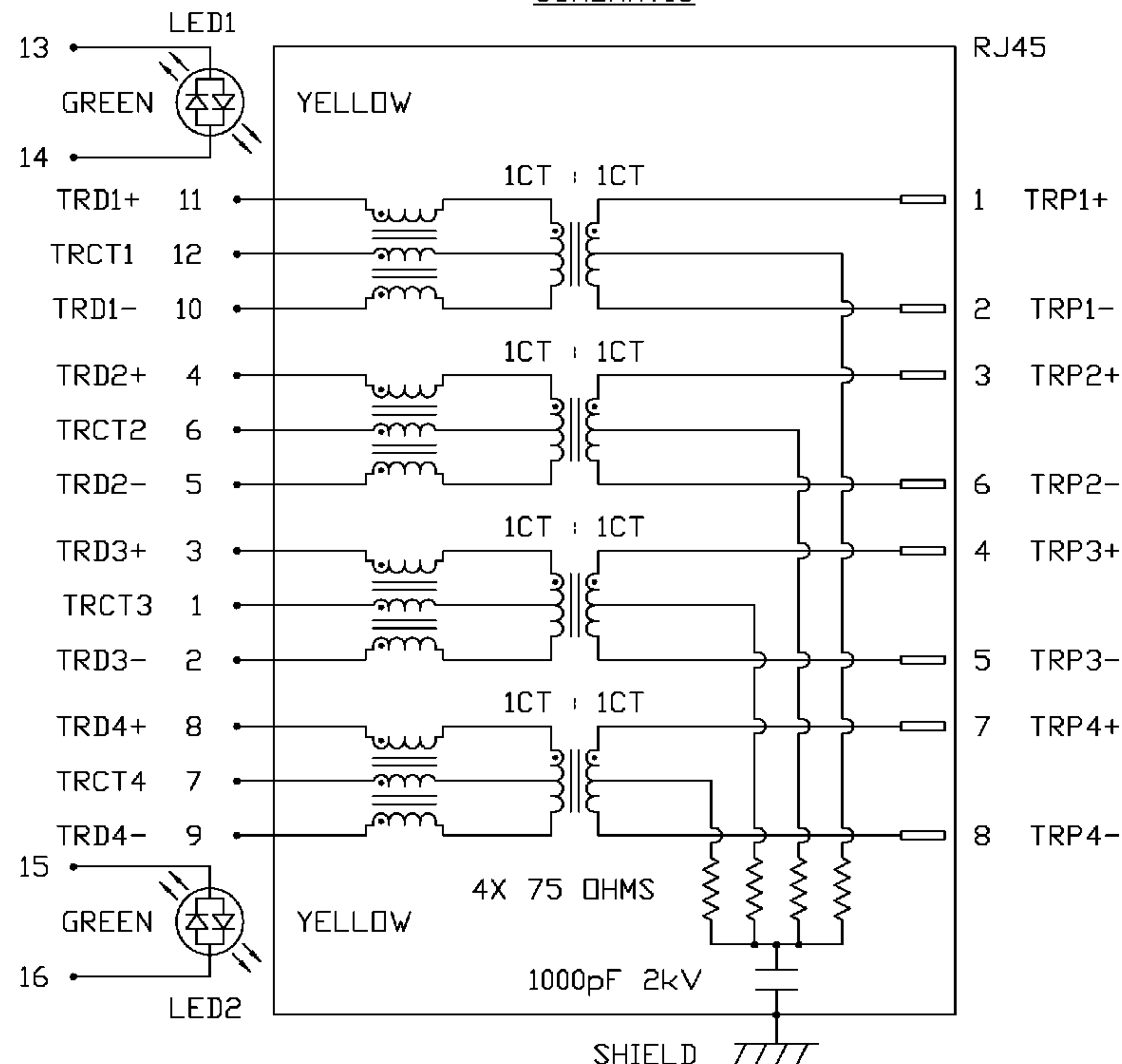
LED1 AND LED2

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

USB ELECTRICAL:

INSULATION RESISTANCE:	1000 MEGA Ω(MIN)
CONTACT RESISTANCE:	25 MILLI Ω(MAX)
DIELECTRIC WITHSTANDING:	750 VAC

SCHEMATIC



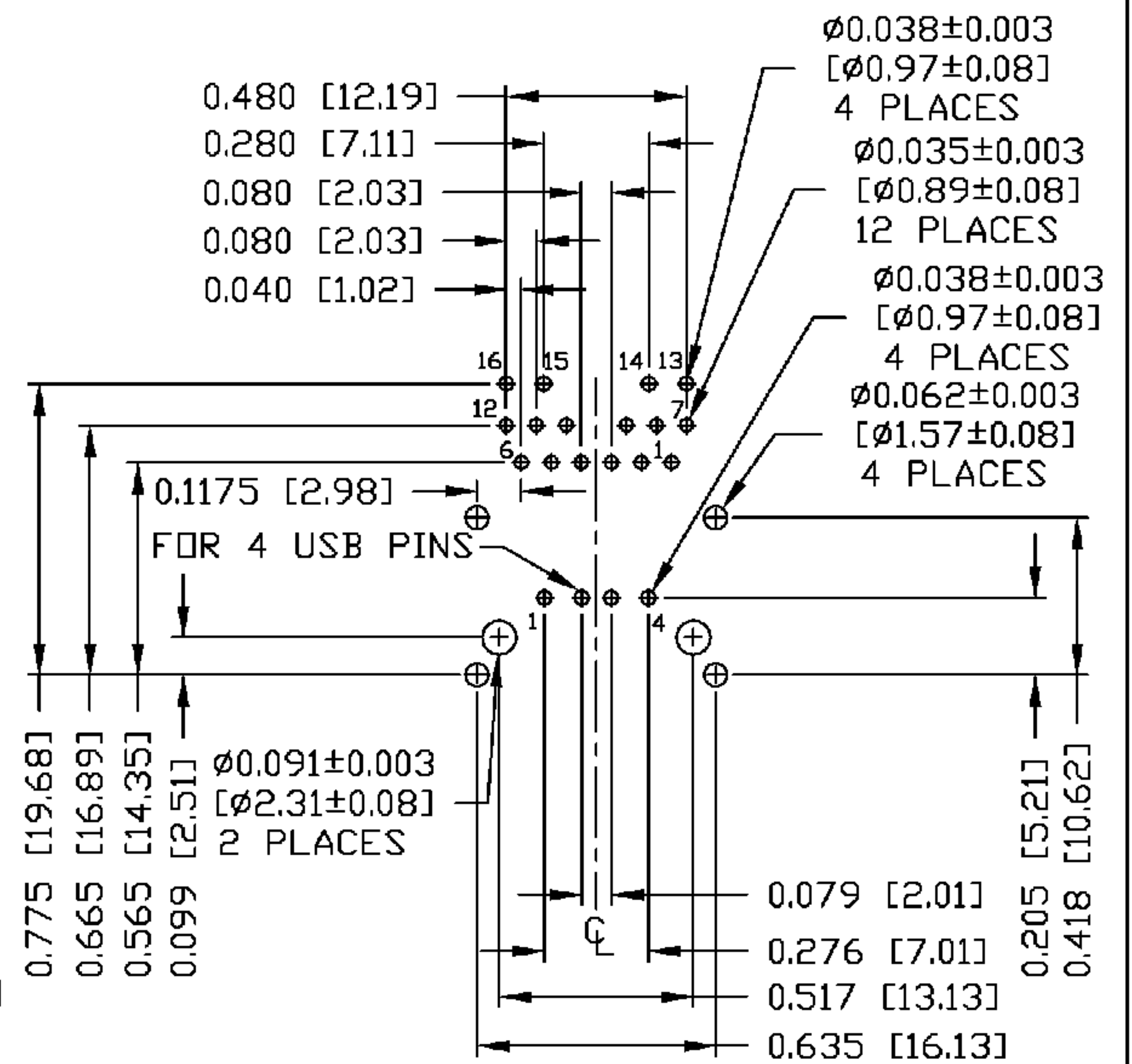
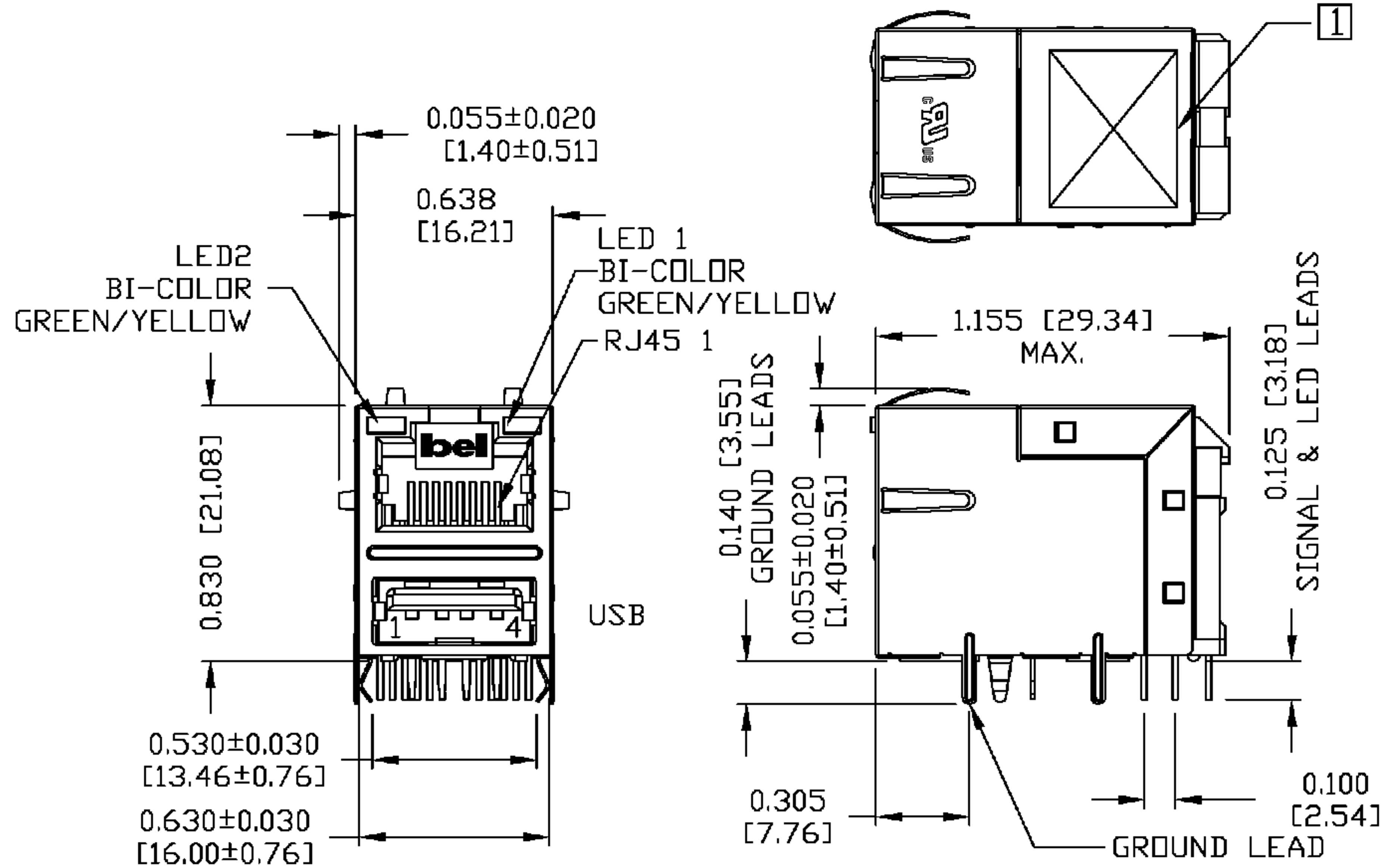
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	 COMPONENTS FOR A CONNECTED PLANET
CHUNG	02-16-06	gigabit Combo MagJack® SINGLE USB WITH LED	0821-1C1T-43	.X	UNIT : INCH [mm]	
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A	
DE	02-16-06		08211C1T43PC.DWG	.XXX	PAGE : 2	

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MECHANICAL SPECIFICATION

PRELIMINARY

RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



USB MECHANICAL:

MATING FORCE: 35 NEWTONS MAXIMUM

UNMATING FORCE: 10 NEWTONS MINIMUM

CONTACT: PROSPER BRONZE
30 MICRO-INCH MIN GOLD PLATING ON
CONTACT AREA AND TIN/LEAD ON SOLDER TAIL.

RJ45 MECHANICAL:

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)

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

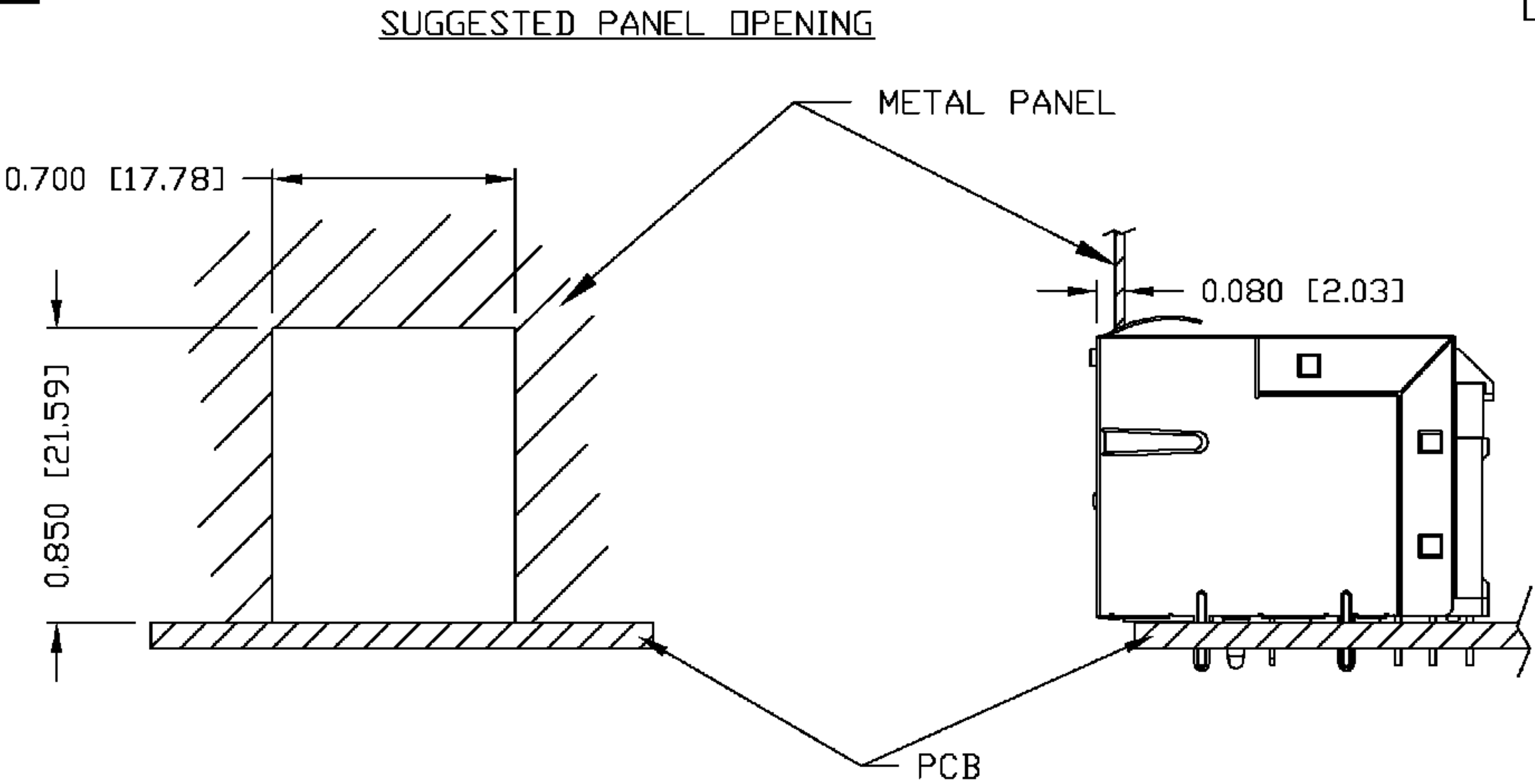
UL US UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	
ANTON	02-16-06	gigabit Combo MagJack® SINGLE USB WITH LED	0821-1C1T-43	TOL. IN INCH	UNIT : INCH [mm]	REV. : PC
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
TING	02-16-06		08211C1T43PC.DWG	.XX		PAGE : 3
				.XXX	±0.010	



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PRELIMINARY



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)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		
				TOL. IN INCH		UNIT : INCH [mm]	REV. : PC	
ANTON	02-16-06	gigabit Combo MagJack® SINGLE USB WITH LED	0821-1C1T-43	.X		SCALE : N/A	SIZE : A4	
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 4	
TING	02-16-06		08211C1T43PC.DWG	.XXX	±0.004			