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

ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

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

DCL @ 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

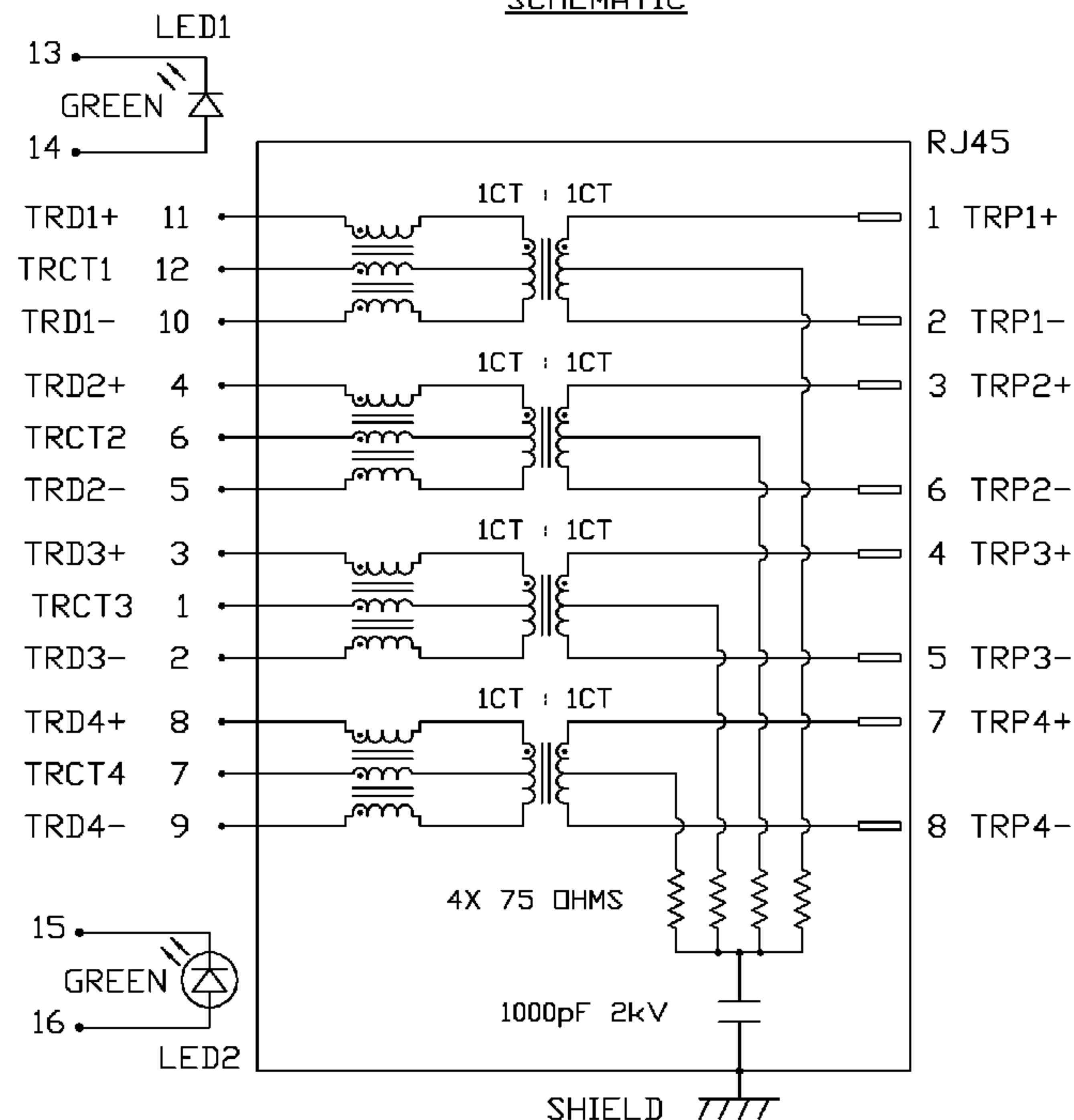
LED 1 & 2

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

USB ELECTRICAL:

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

SCHEMATIC



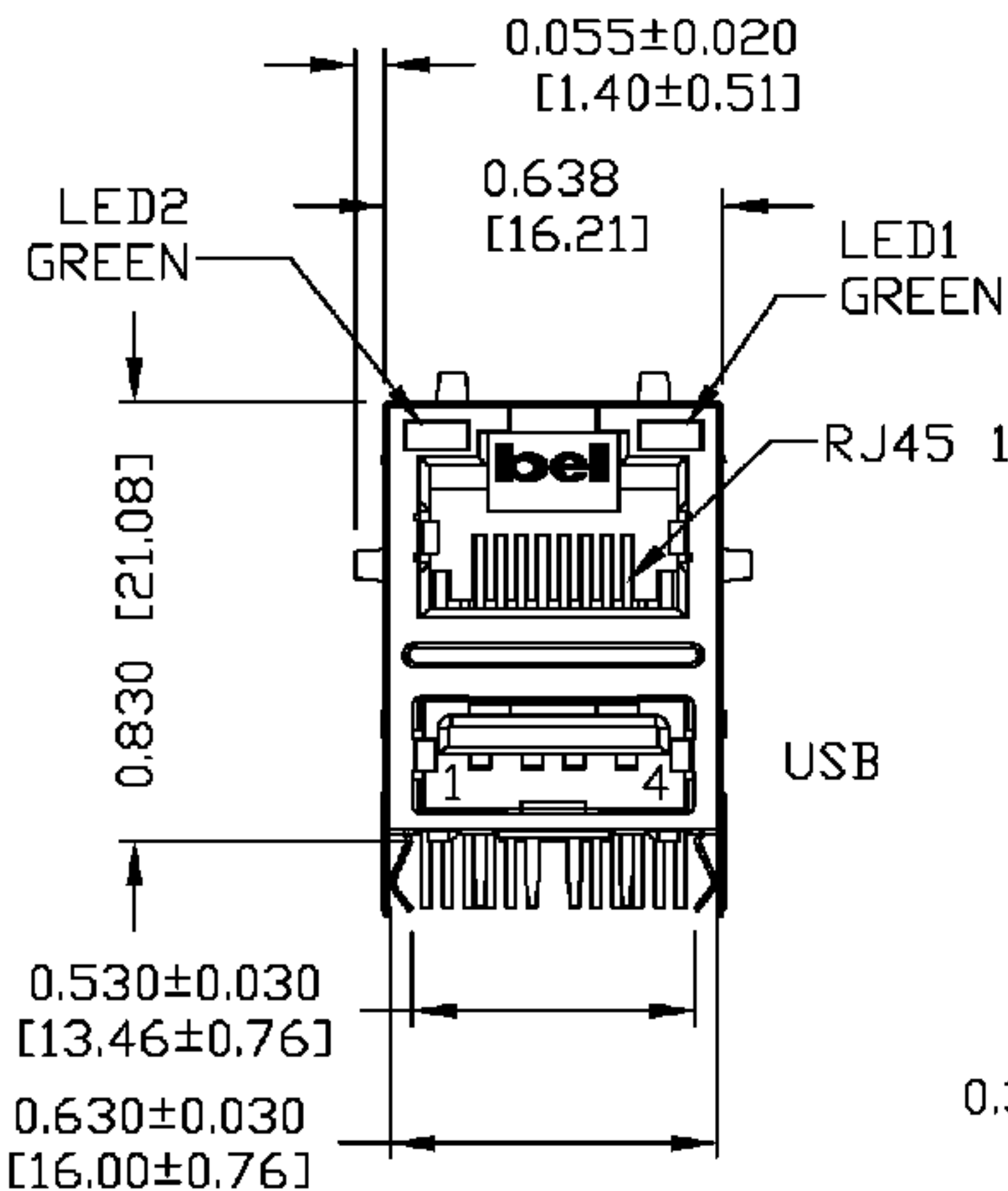
ORIGINATED BY CHUNG	DATE 02-16-06	TITLE gigabit MagJack® Combo (single USB, 8 cores)	PART NO. / DRAWING NO. 0821-1G1T-43	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY DE	DATE 02-16-06		FILE NAME 08211G1T43D.DWG	.X		UNIT : INCH [mm] REV. : D		
				.XX		SCALE : N/A SIZE : A4		
				.XXX		 PAGE : 2		

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MECHANICAL SPECIFICATION

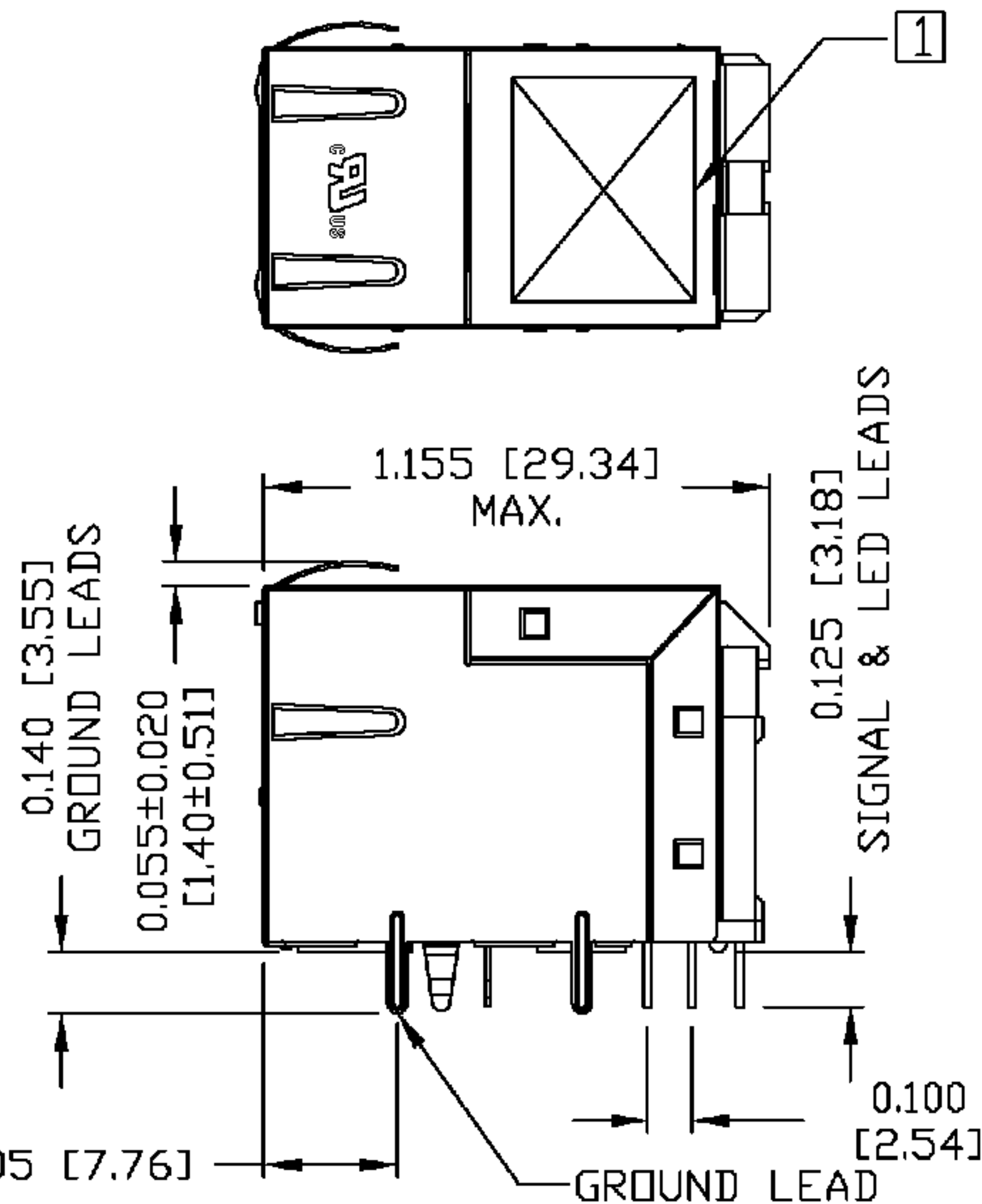
RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW



RJ45 MECHCNICAL:

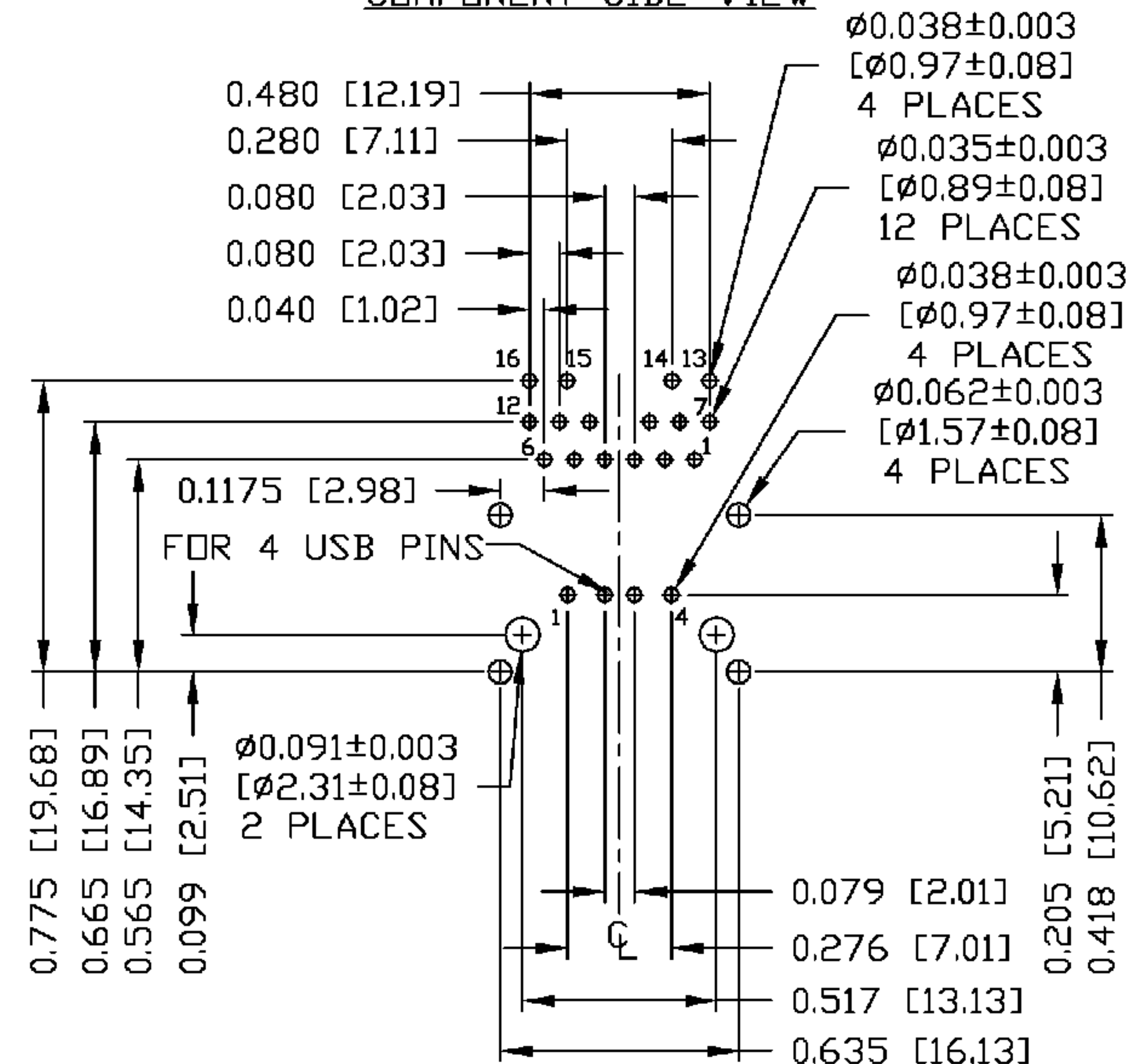
PLASTIC HOUSING: THERMOPLASTIC PBT
FLAMMABILITY RATING UL 94V-0
CONTACT PLATING: 30 MICRO-INCH HARD GOLD PLATING
PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)



USB MECHANICAL:

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

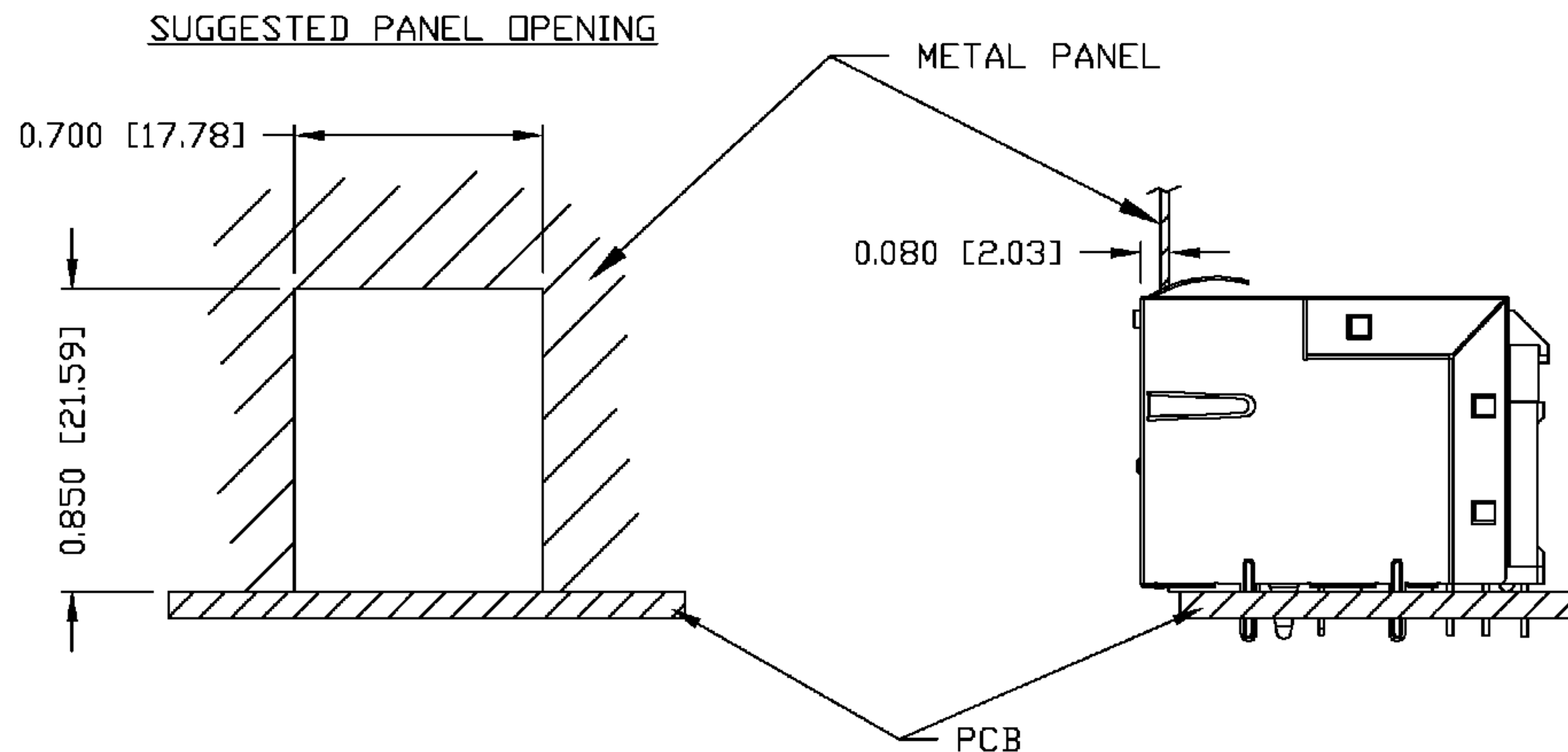
1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.
UL US UL RECOGNIZED - FILE #E196366 AND E169987.



ORIGINATED BY ANTON	DATE 02-16-06	TITLE gigabit MagJack® Combo (single USB, 8 cores)	PART NO. / DRAWING NO. 0821-1G1T-43	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		bel COMPONENTS FOR A CONNECTED PLANET
DRAWN BY TING	DATE 02-16-06		FILE NAME 08211G1T43D.DWG	.X		UNIT : INCH [mm]	REV. : D	
				.XX		SCALE : N/A	SIZE : A4	
				.XXX	±0.010		PAGE : 3	



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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. : D
ANTON	02-16-06	gigabit MagJack® Combo (single USB, 8 cores)	0821-1G1T-43	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 4
TING	02-16-06		08211G1T43D.DWG	.XXX	±0.004		

