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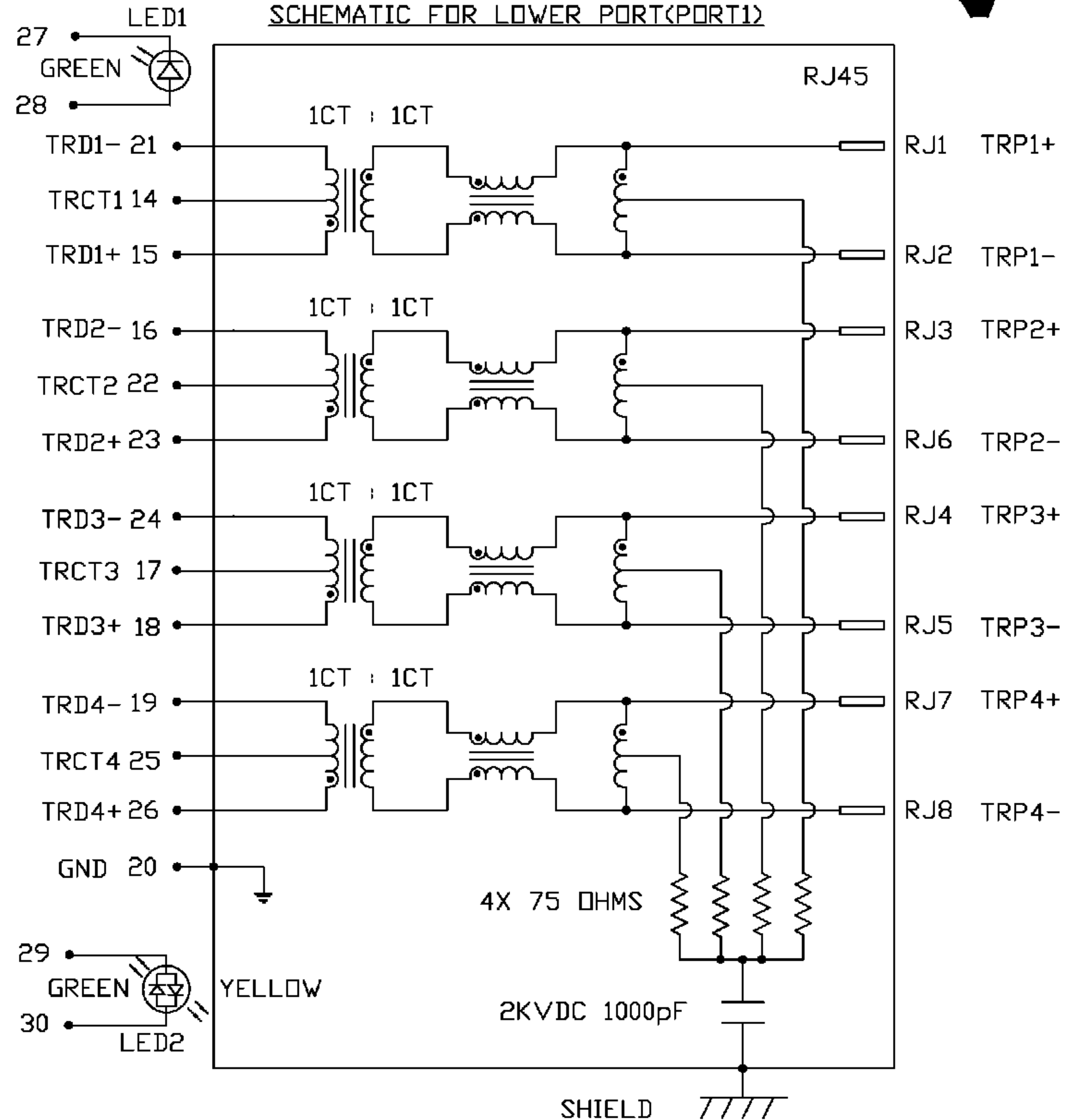
LED1 POLARITY			LED2 POLARITY		
PIN 27	PIN 28	COLOR	PIN 29	PIN 30	COLOR
-	+	GREEN	+	-	YELLOW
/	/	/	-	+	GREEN

RoHS  
2002/95/EC



**ELECTRICAL CHARACTERISTICS @ 25°C**

<b>TURNS RATIO</b>			
TP1	1CT : 1CT ±2%		
TP2	1CT : 1CT ±2%		
TP3	1CT : 1CT ±2%		
TP4	1CT : 1CT ±2%		
<b>DCL @ 100kHz, 100mVRMS</b>			
8mA DC BIAS	350 uH MIN.		
<b>INS. LOSS</b>			
100kHz TO 100MHz	-1.1 dB MAX		
<b>RET. LOSS (MIN)</b>			
1MHz-30MHz	-18 dB		
30MHz-60MHz	-16 dB		
60MHz-80MHz	-14 dB		
80MHz-100MHz	-12 dB		
<b>CM TO CM REJ</b>			
100kHz - 100MHz	-25 dB TYP		
<b>CROSS TALK</b>			
1MHz - 60MHz	-35 dB TYP		
60MHz - 100MHz	-25 dB TYP		
<b>HIPOT (Isolation Voltage):</b>	1500 Vrms		
<b>LEAKAGE INDUCTANCE</b>			
PRIMARY W/ SECONDARY SHORTED	0.3uH Max. @ 1MHz		
<b>INTERWINDING CAPACITANCE</b>			
PER CHANNEL (PRI. TO SEC.)	70pF Max @ 1MHz		
<b>DC RESISTANCE</b>			
(21-15)=(16-23)=(24-18)=(19-26)	1.2 ohms Max		
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max		
<b>LED 1</b>			
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.		
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.		
<b>LED 2</b>			
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.		
λD (DOMINANT WAVELENGTH)	IF=20mA YELLOW 2.1V TYP.		
	IF=20mA GREEN 565nm TYP.		
	IF=20mA YELLOW 590nm TYP.		



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE
CHUNG	12-28-05	2X1 gigabit MagJack® (with LED)	0845-2R1T-H7	.X	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
DE	12-28-05		08452R1TH7A.DWG	.XXX	PAGE : 2



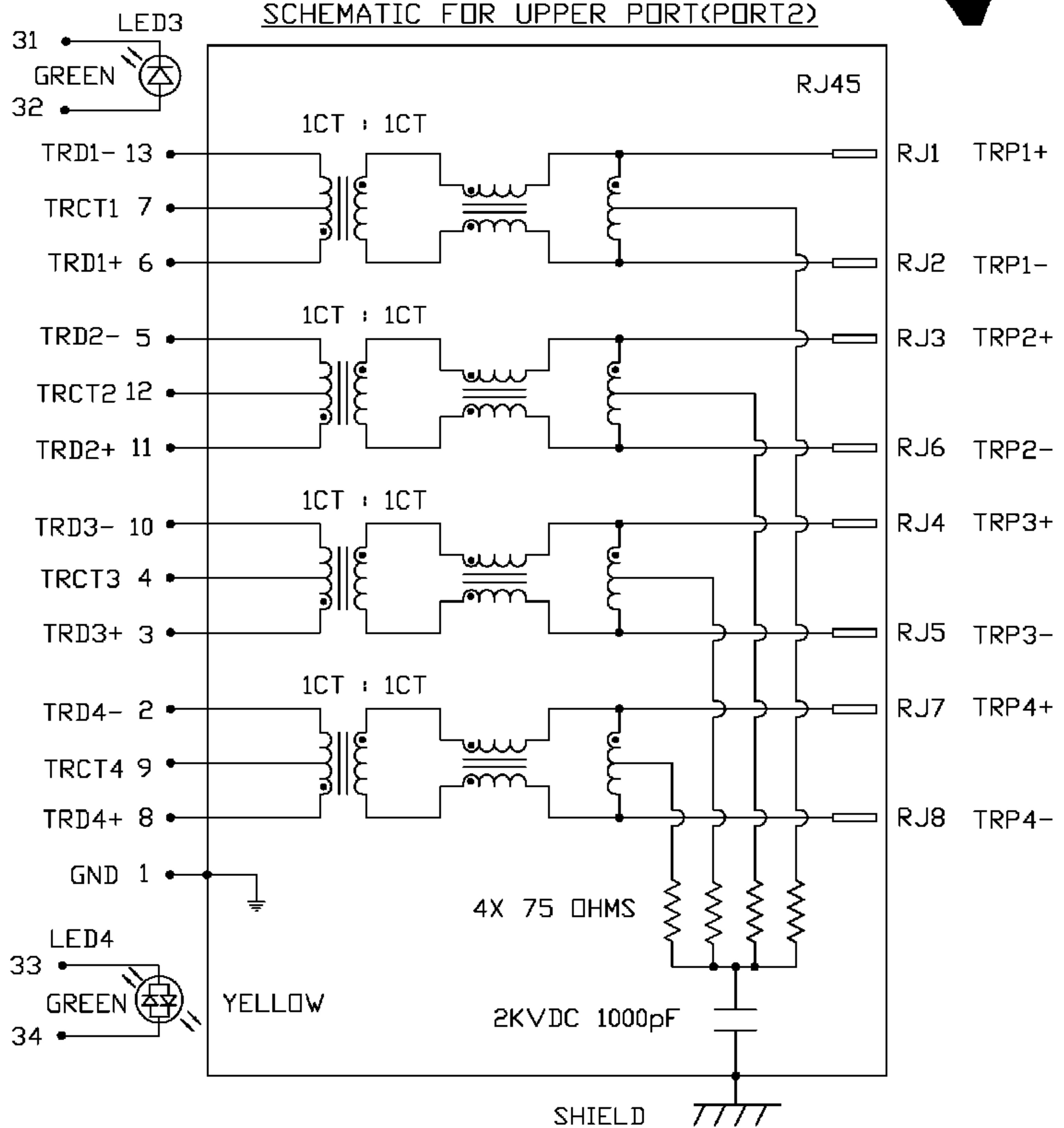
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LED3 POLARITY			LED4 POLARITY		
PIN 31	PIN 32	COLOR	PIN 33	PIN 34	COLOR
-	+	GREEN	+	-	YELLOW
			-	+	GREEN

**ELECTRICAL CHARACTERISTICS @ 25°C**

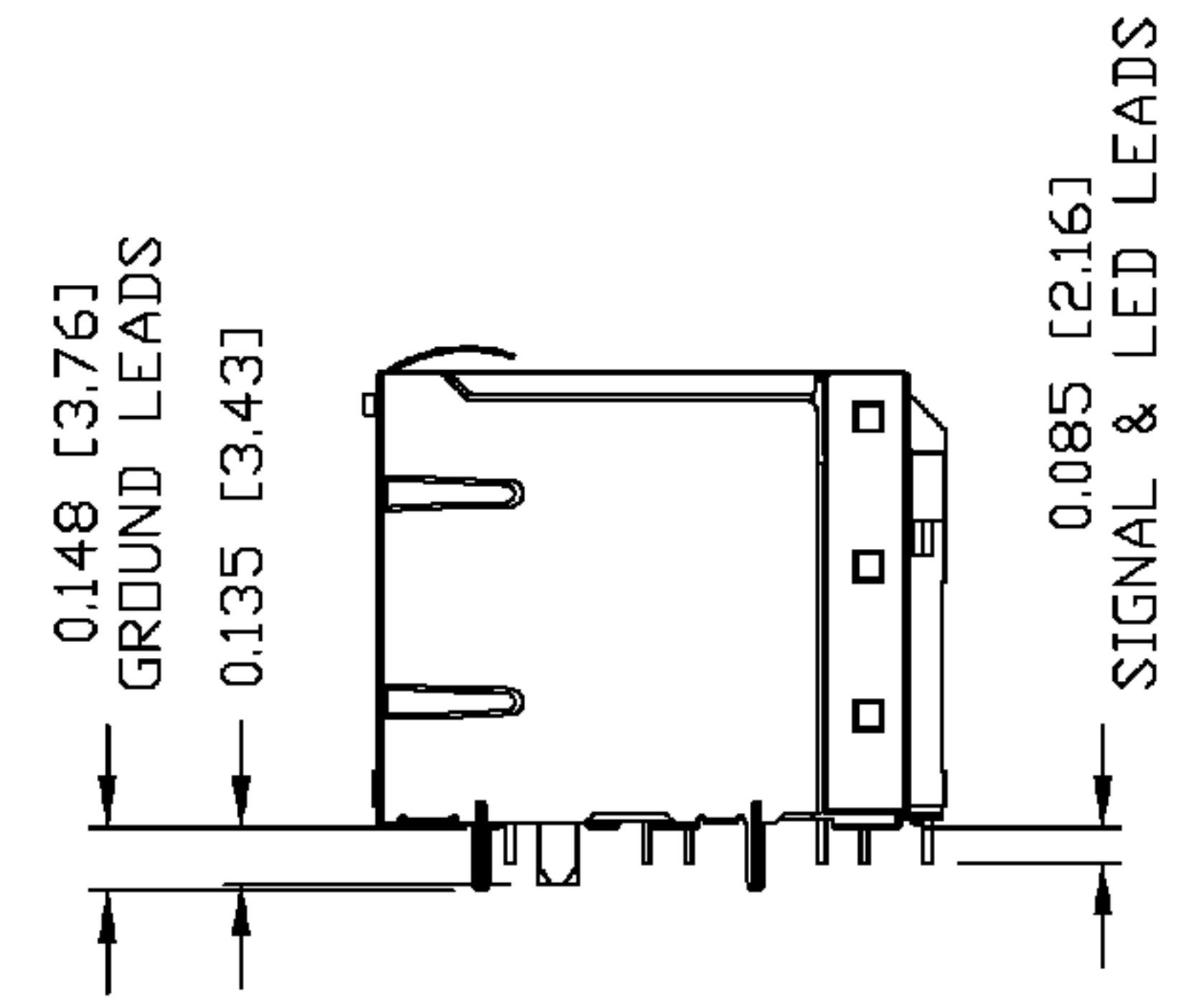
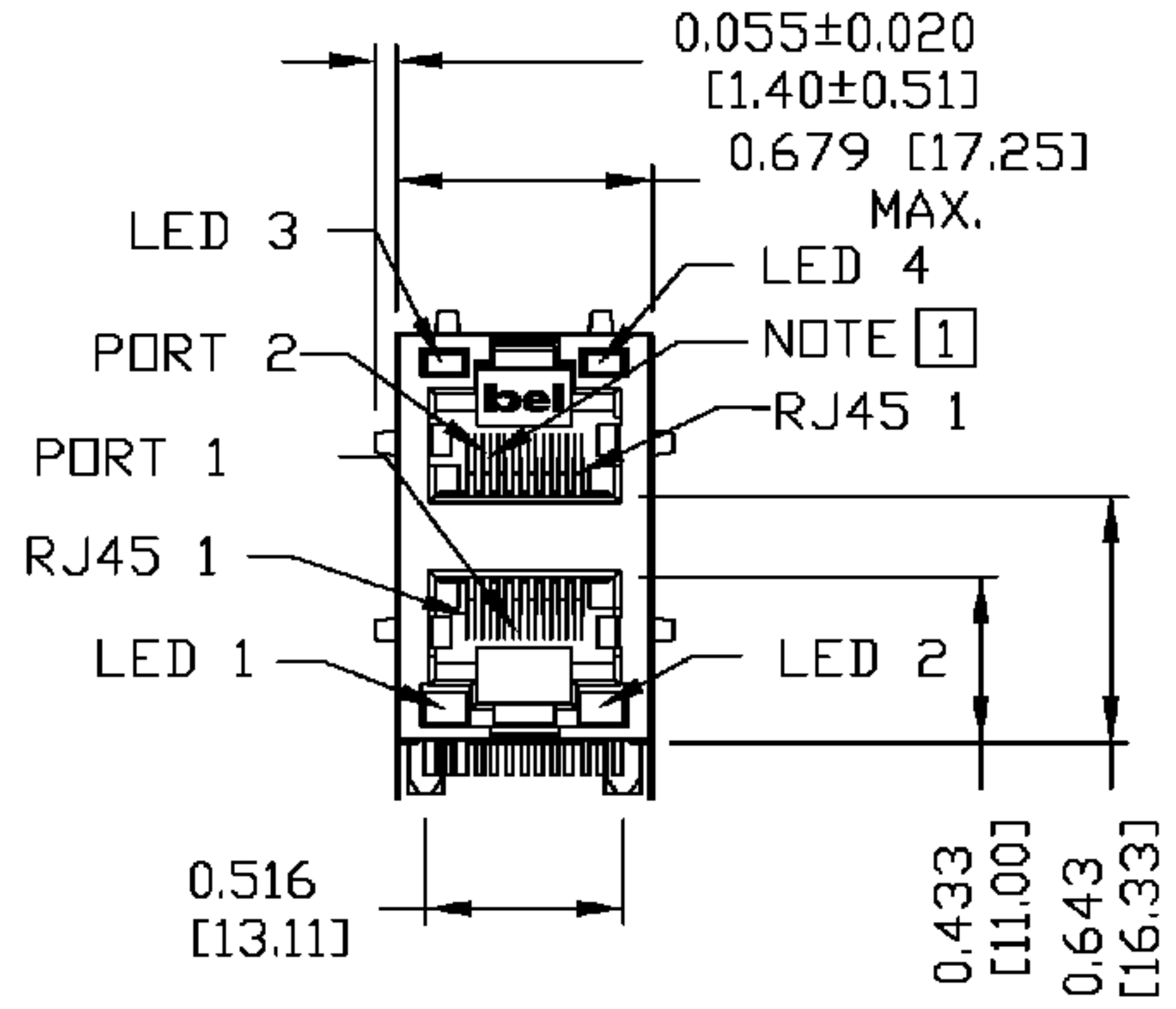
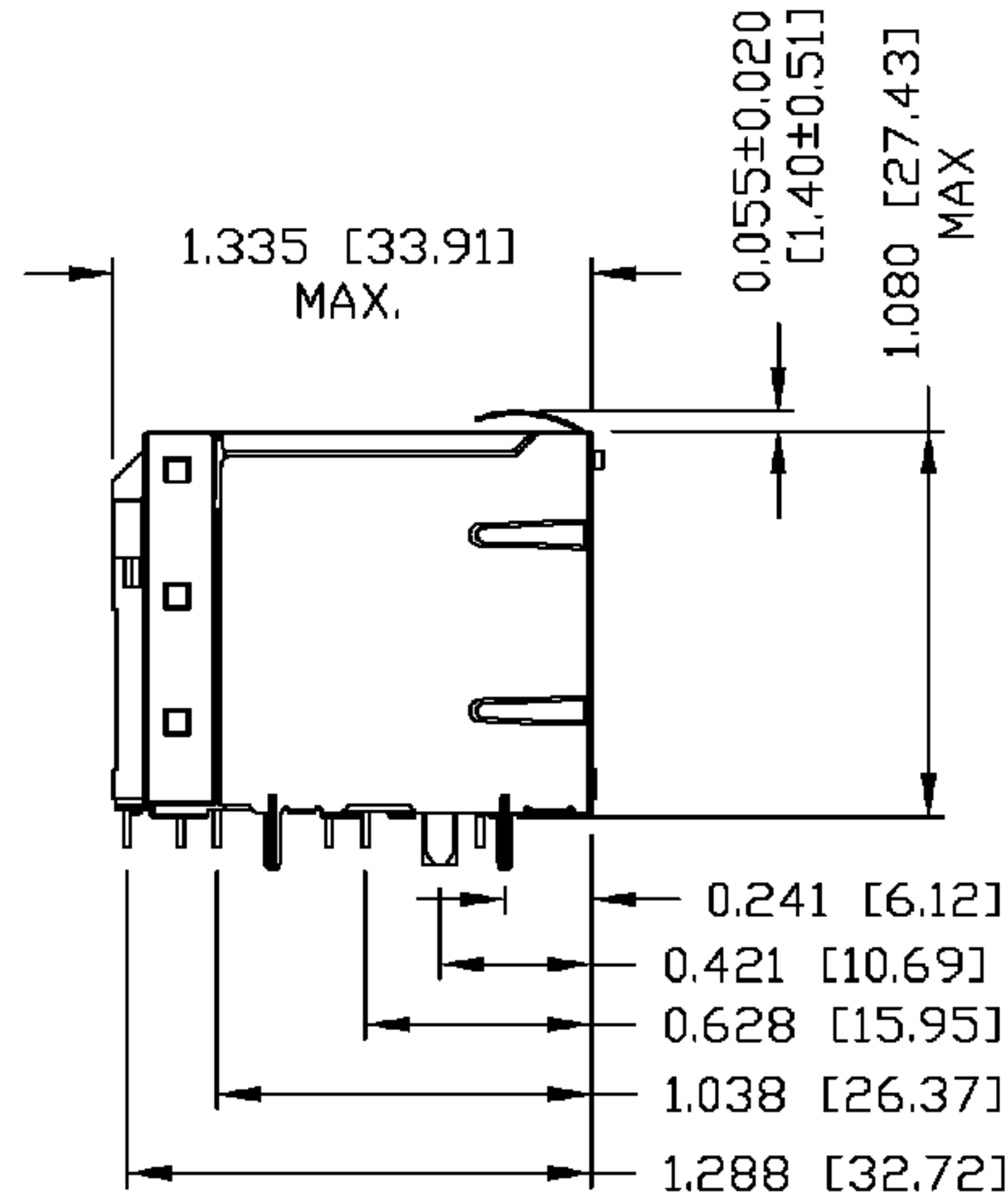
<b>URNS RATIO</b>	
TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%
<b>QCL @ 100kHz,100mVRMS</b>	
8mA DC BIAS	350 uH MIN.
<b>INS. LOSS</b>	
100kHz TO 100MHz	-1.1 dB MAX
<b>RET. LOSS (MIN)</b>	
1MHz-30MHz	-18 dB
30MHz-60MHz	-16 dB
60MHz-80MHz	-14 dB
80MHz-100MHz	-12 dB
<b>CM TO CM REJ</b>	
100kHz - 100MHz	-25 dB TYP
<b>CROSS TALK</b>	
1MHz - 60MHz	-35 dB TYP
60MHz - 100MHz	-25 dB TYP
<b>HIPOT (Isolation Voltage):</b>	1500 Vrms
<b>LEAKAGE INDUCTANCE</b>	
PRIMARY W/ SECONDARY SHORTED	0.3uH Max. @ 1MHz
<b>INTERWINDING CAPACITANCE</b>	
PER CHANNEL (PRI. TO SEC.)	70pF Max @ 1MHz
<b>DC RESISTANCE</b>	
(13-6)=(5-11)=(10-3)=(2-8)	1.2 ohms Max
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max
<b>LED 3 (SUPER BRIGHT)</b>	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.
<b>LED 4 (SUPER BRIGHT)</b>	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.
	IF=20mA YELLOW 2.1V TYP.
	IF=20mA YELLOW 590nm TYP.



<b>ORIGINATED BY</b> CHUNG	<b>DATE</b> 12-28-05	<b>TITLE</b> 2X1 gigabit MagJack® (with LED)	<b>PART NO. / DRAWING NO.</b> 0845-2R1T-H7	<b>STANDARD DIM. TOL. IN INCH</b> .X .XX .XXX	<b>[ ] METRIC DIM. AS REFERENCE</b> UNIT : INCH [mm] SCALE : N/A	<b>REV. : A</b> <b>SIZE : A4</b> <b>PAGE : 3</b>	
<b>DRAWN BY</b> DE	<b>DATE</b> 12-28-05	<b>FILE NAME</b> 08452R1TH7A.DWG					

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2002/95/EC



**NOTES:**

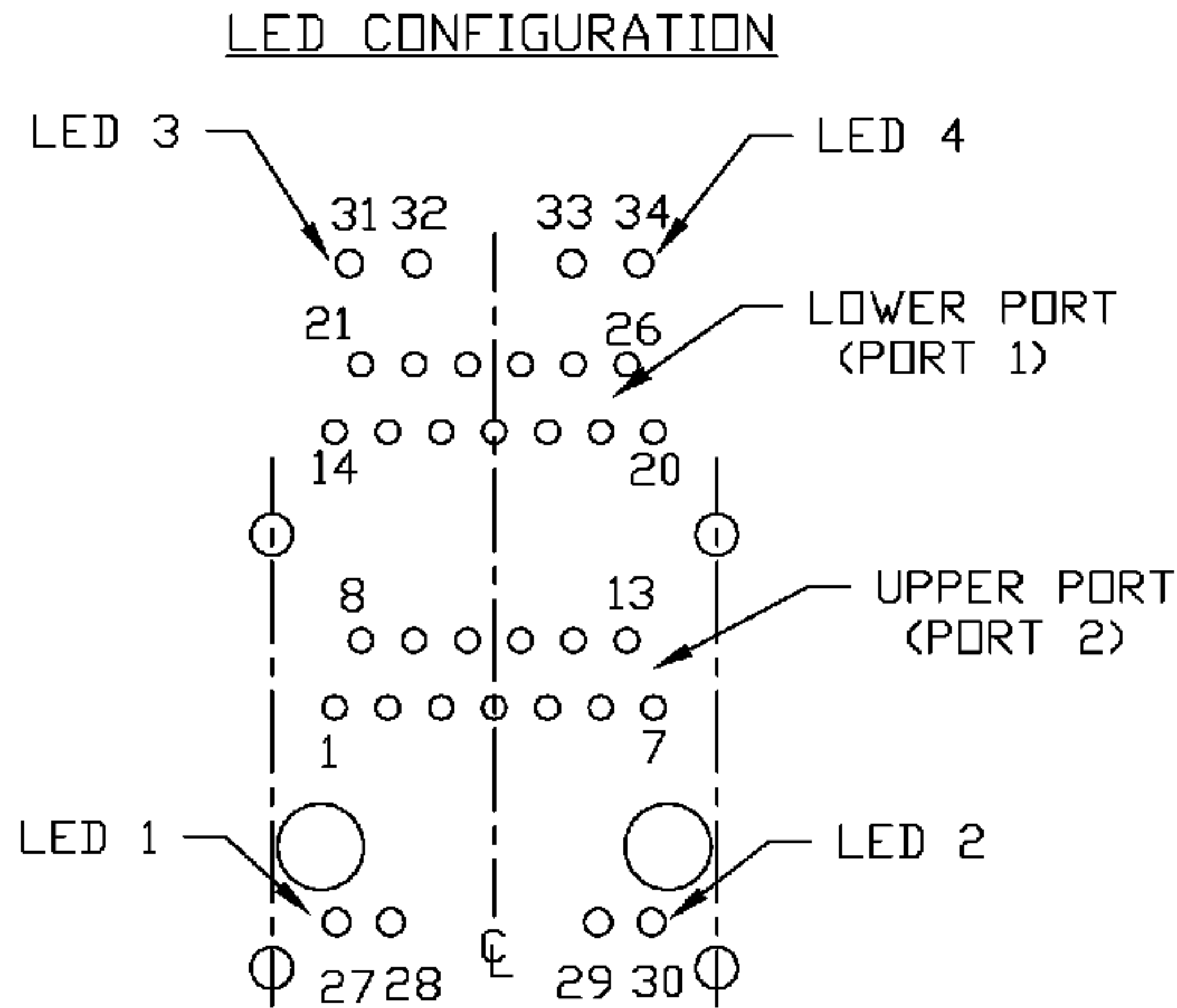
PLASTIC HOUSING: THERMOPLASTIC PBT  
 FLAMMABILITY RATING UL 94V-0  
 CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING  
 OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.  
 METAL SHIELD: NICKEL PLATED COPPER ALLOY.  
 (ALL GROUND LEADS ARE SOLDER DIPPED)  
 RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

- [1] JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- [2] MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

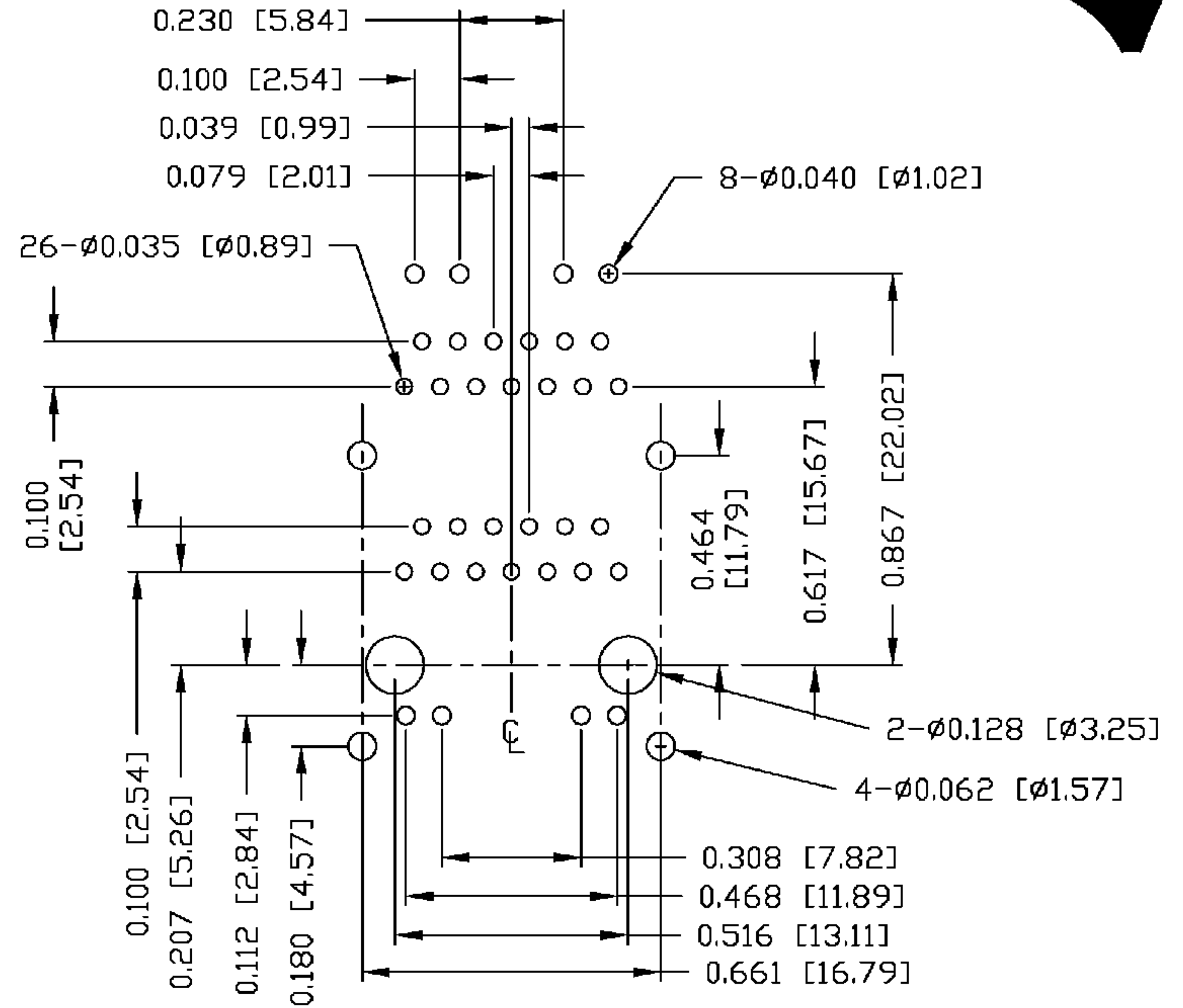
**UL** US UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY BANG/KEUNG	DATE 12-28-05	TITLE 2X1 gigabit MagJack® (with LED)	PART NO. / DRAWING NO. 0845-2R1T-H7	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY LING	DATE 12-28-05		FILE NAME 08452R1TH7A.DWG	.X	UNIT : INCH [mm]	
				.XX	SCALE : N/A	
				.XXX ±0.010	REV. : A SIZE : A4 PAGE : 4	

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**PIN-OUT INFORMATION**  
(COMPONENT SIDE VIEW)  
(SCALE 2:1)



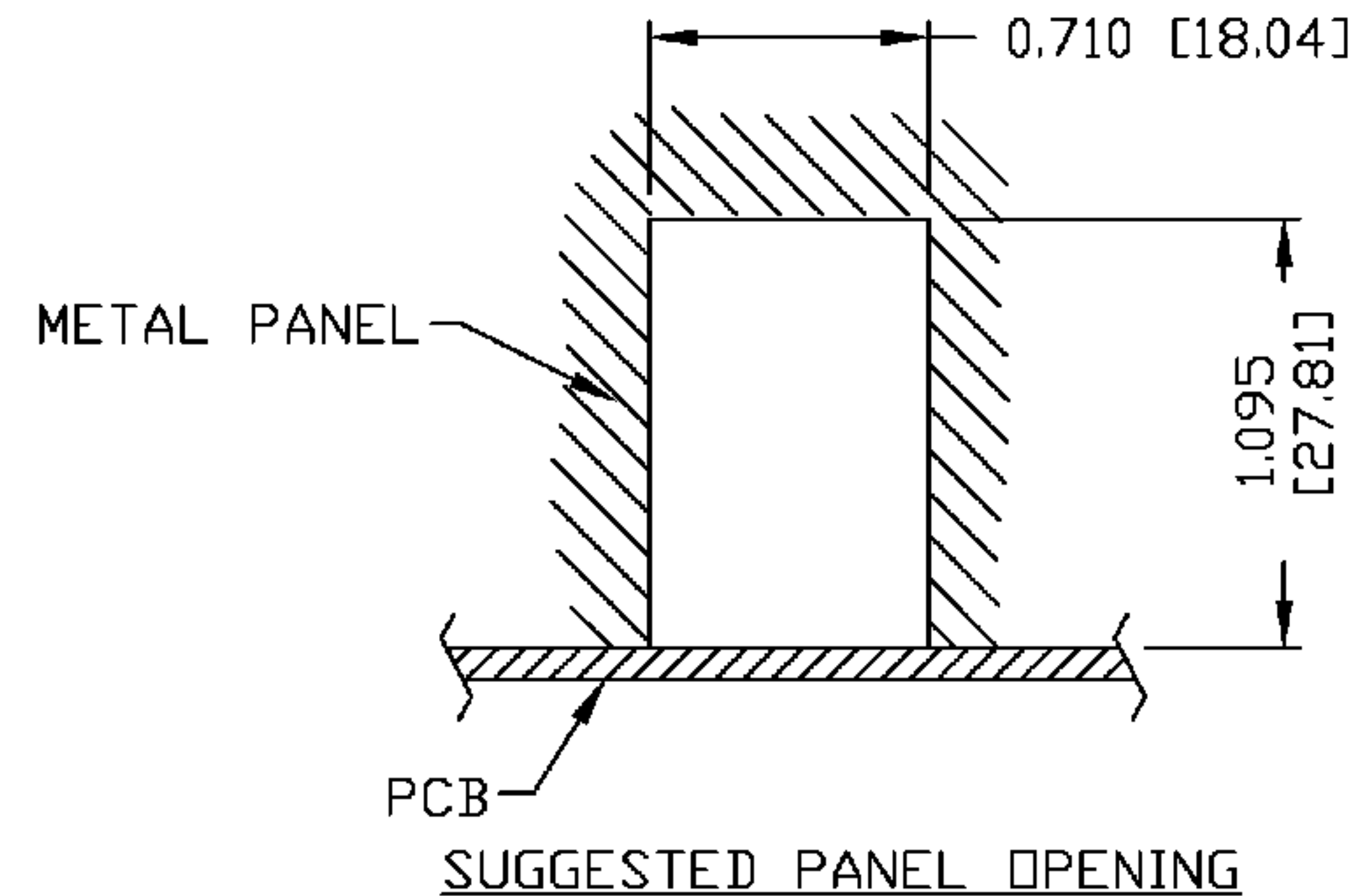
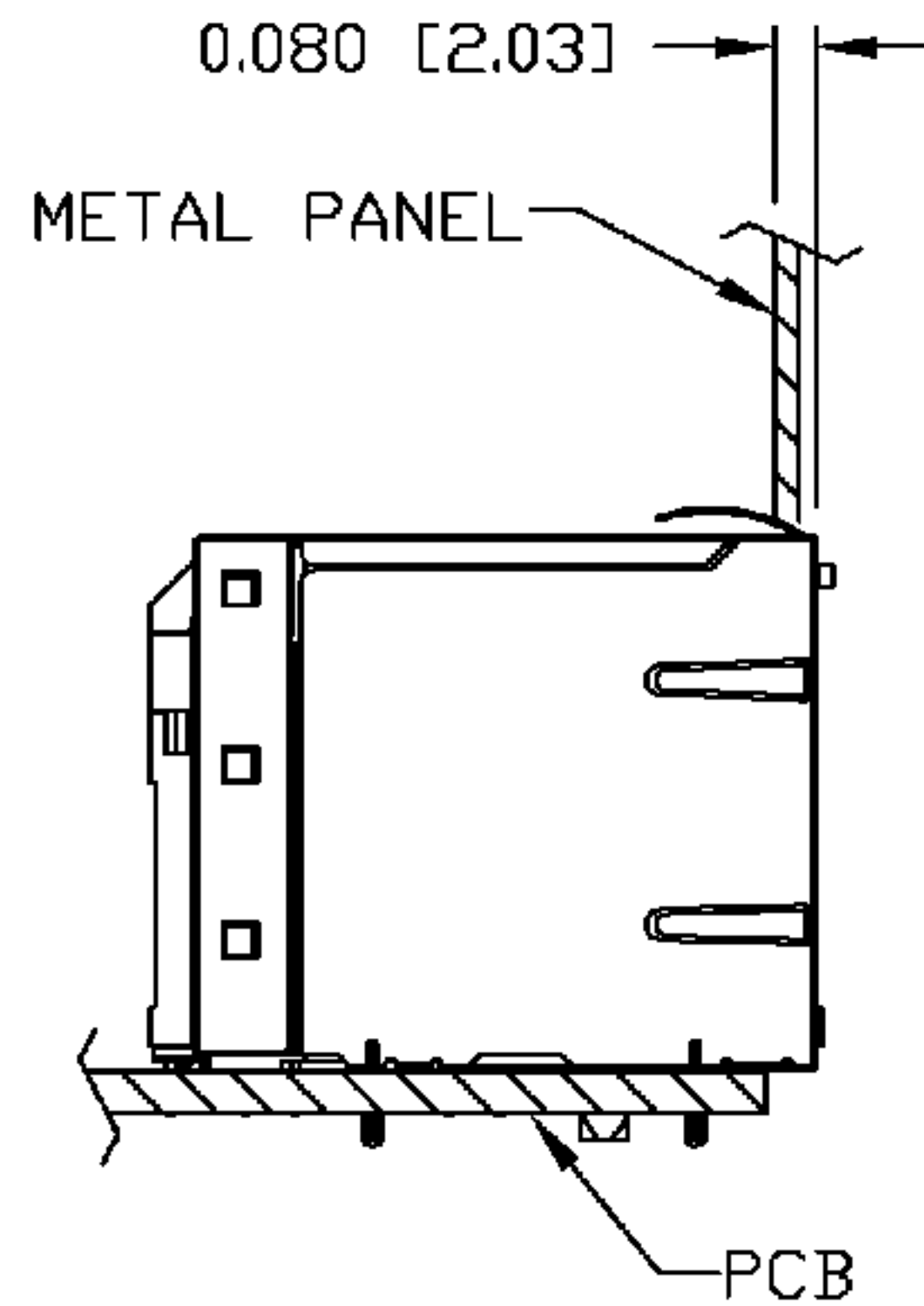
**SUGGESTED FOOTPRINT**  
(COMPONENT SIDE VIEW)  
(SCALE 2:1)

<b>ORIGINATED BY</b> BANG/KEUNG	<b>DATE</b> 12-28-05	<b>TITLE</b> 2X1 glgabit MagJack® (with LED)	<b>PART NO. / DRAWING NO.</b> 0845-2R1T-H7	<b>STANDARD DIM. TOL. IN INCH</b>	<b>[ ] METRIC DIM. AS REFERENCE</b>	
<b>DRAWN BY</b> LING	<b>DATE</b> 12-28-05		<b>FILE NAME</b> 08452R1TH7A.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A	REV. : A SIZE : A4 PAGE : 5
			±0.004			



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**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-H5 (TOP)  
0200-9999-H6 (BOTTOM)

PACKING QUANTITY: 40 PCS FINISHED GOODS PER TRAY  
6 TRAYS (240 PCS FINISHED GOODS) PER CARTON BOX.

NOTE: CARDBOARD ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX.  
(INCLUDE THE UPPERMOST AND LOWEREST TRAY)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[ ] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : A
BANG/KEUNG	12-28-05	2X1 gigabit MagJack® (with LED)	0845-2R1T-H7	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 6
LING	12-28-05		08452R1TH7A.DWG	.XXX	±0.004		

