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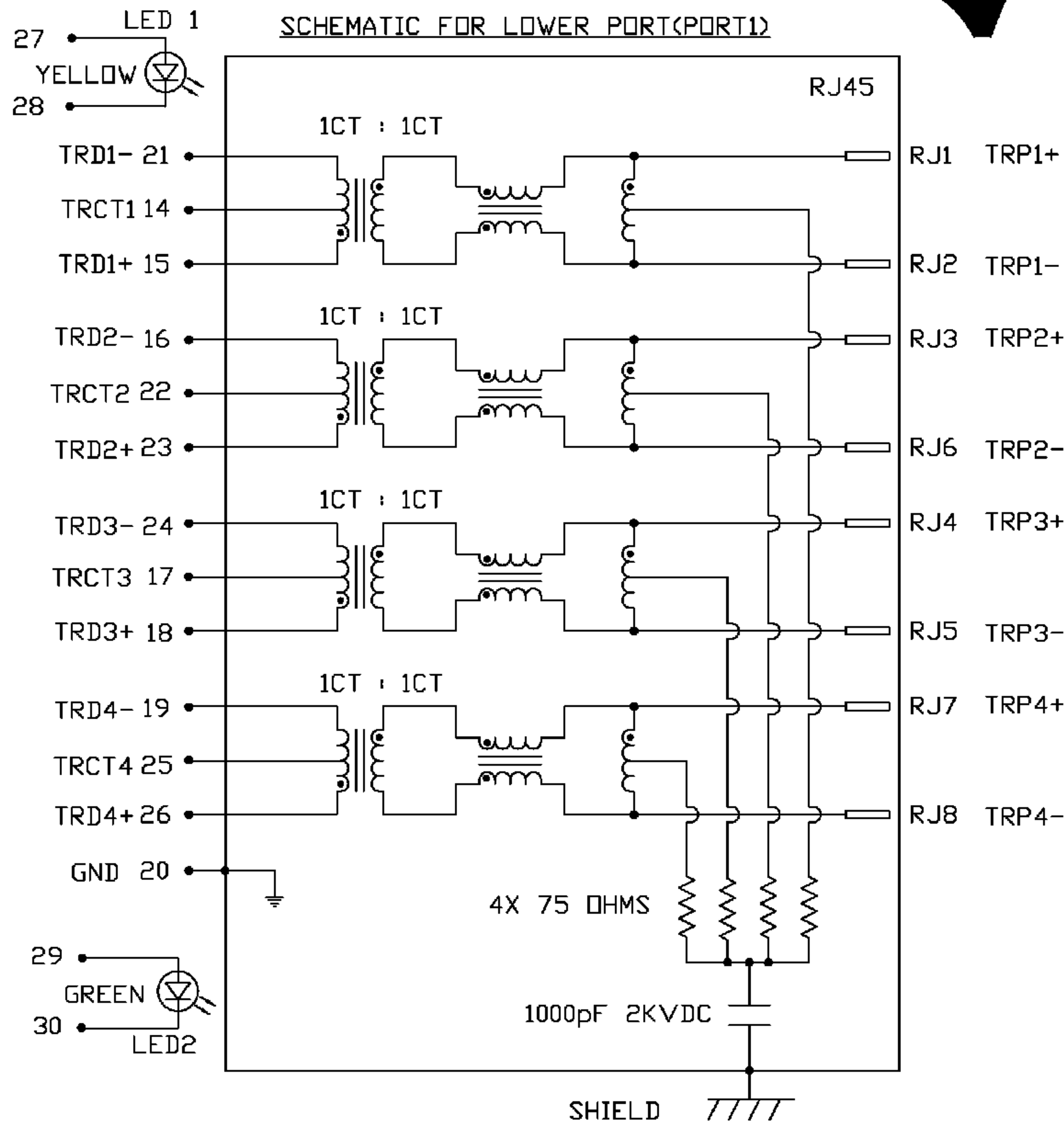
LED 1 POLARITY			LED 2 POLARITY		
PIN 27	PIN 28	COLOR	PIN 29	PIN 30	COLOR
+	-	YELLOW	+	-	GREEN

PRELIMINARY



**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>□CL @ 100kHz,100mVRMS</b>	
8mA DC BIAS	350 uH MIN.
<b>INS. LOSS</b>	
100kHz TO 100MHz	-11 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>HIPDT (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.)	50pF 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 YELLOW 2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA YELLOW 590nm TYP.
<b>LED 2</b>	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.



<b>ORIGINATED BY</b>	<b>DATE</b>	<b>TITLE</b>	<b>PART NO. / DRAWING NO.</b>	<b>STANDARD DIM. TOL. IN INCH</b>	<b>[ ] METRIC DIM. AS REFERENCE</b>
CHUNG	12-27-05	2X1 gigabit MagJack® (with LED)	0845-2D1T-E4	.X	UNIT : INCH [mm] REV. : PC
<b>DRAWN BY</b>	<b>DATE</b>		<b>FILE NAME</b>	.XX	SCALE : N/A SIZE : A4
DE	12-27-05		08452D1TE4PC.DWG	.XXX	⊕ PAGE : 2



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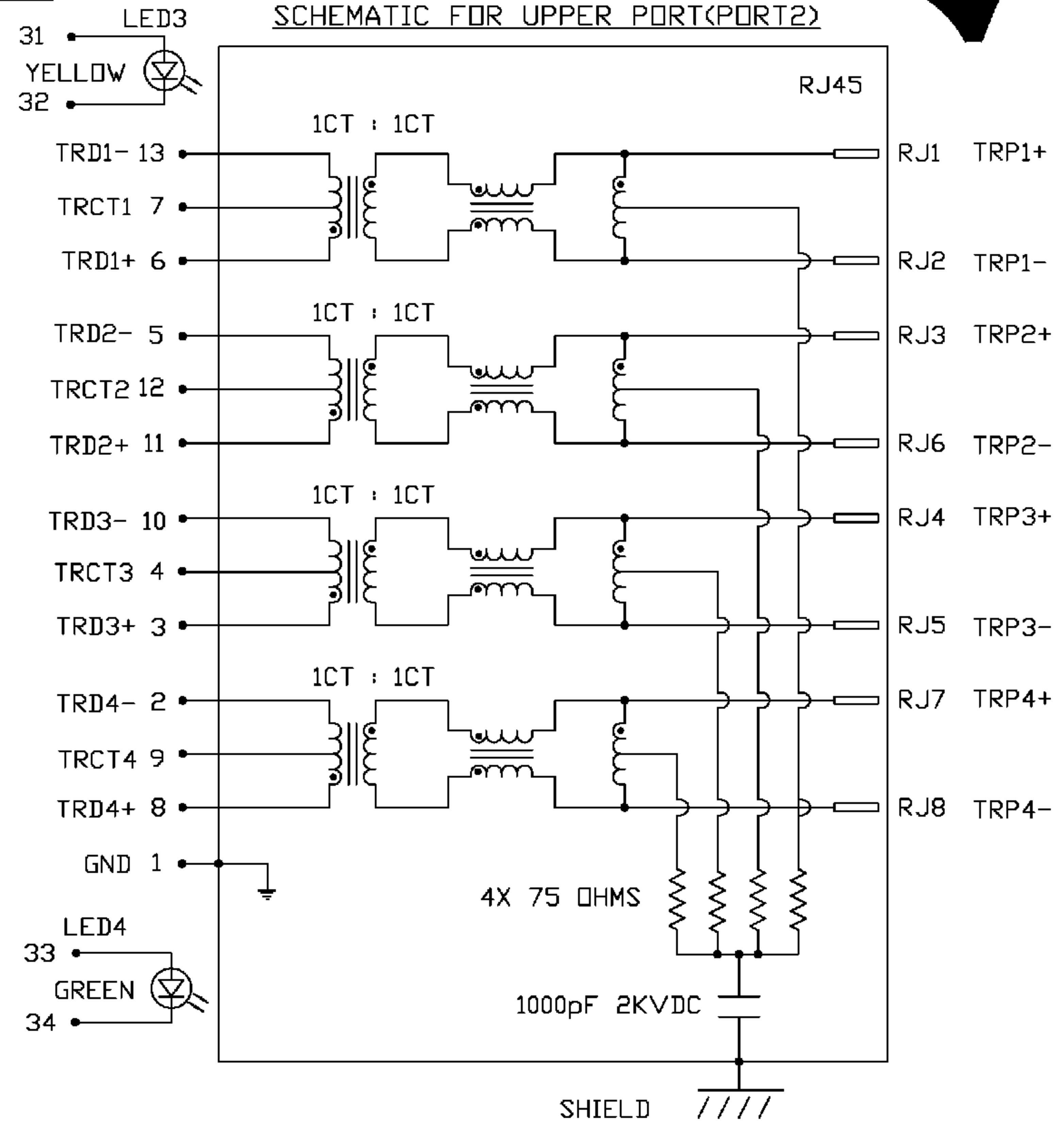
LED 3 POLARITY			LED 4 POLARITY		
PIN 31	PIN 32	COLOR	PIN 33	PIN 34	COLOR
+	-	YELLOW	+	-	GREEN

PRELIMINARY



**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>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.)	50pF 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 YELLOW 2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA YELLOW 590nm TYP.
<b>LED 4 (Super bright)</b>	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.

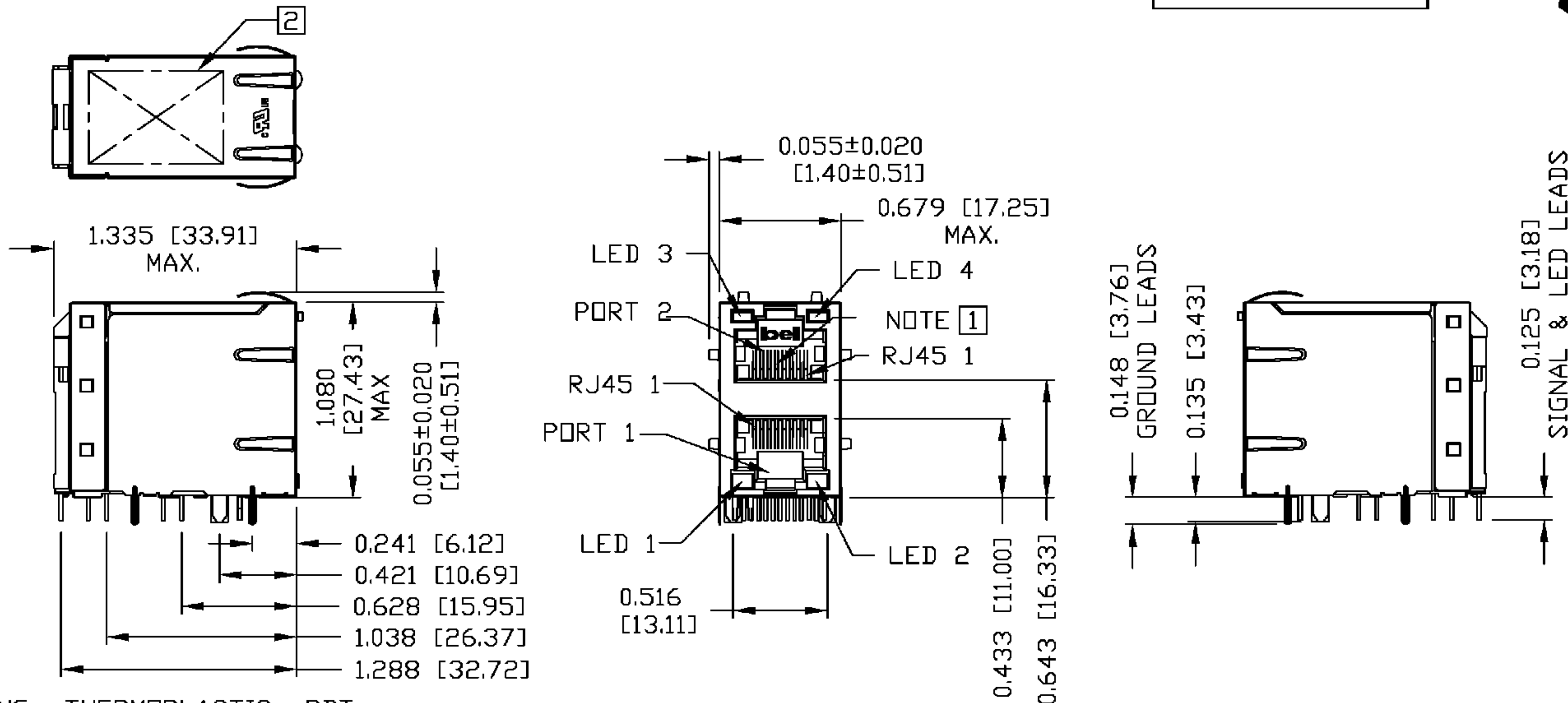


<b>ORIGINATED BY</b> CHUNG	<b>DATE</b> 12-27-05	<b>TITLE</b> 2X1 gigabit MagJack® (with LED)	<b>PART NO. / DRAWING NO.</b> 0845-2D1T-E4	<b>STANDARD DIM.</b> TOL. IN INCH	<b>[ ] METRIC DIM. AS REFERENCE</b>	
<b>DRAWN BY</b> DE	<b>DATE</b> 12-27-05		<b>FILE NAME</b> 08452D1TE4PC.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A	REV. : PC SIZE : A4 PAGE : 3



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**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 ON 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 RECOGNIZED - FILE #E196366 AND E169987.

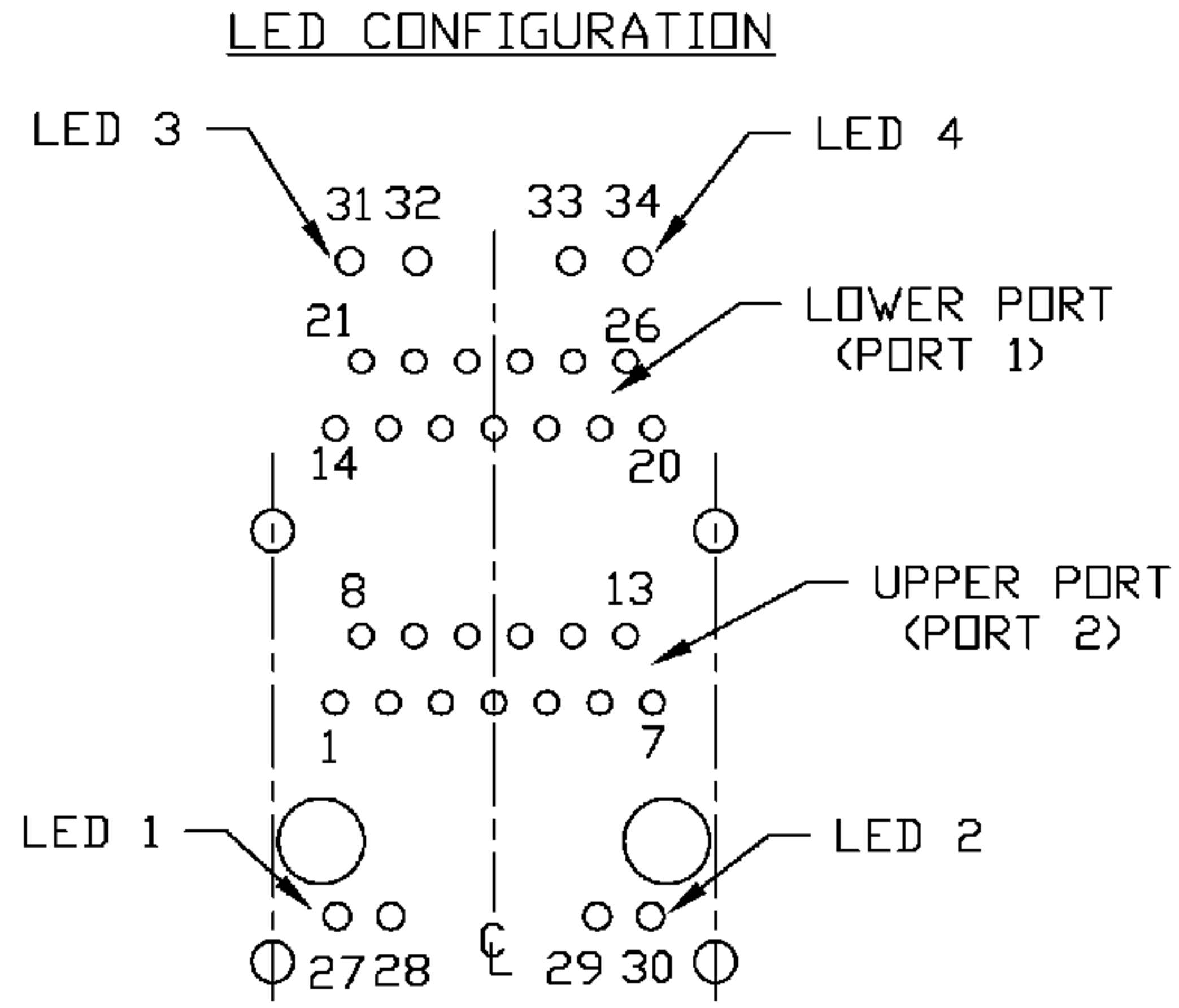
ORIGINATED BY BILL KEUNG	DATE 12-27-05	TITLE 2X1 gigabit MagJack® (with LED)	PART NO. / DRAWING NO. 0845-2D1T-E4	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	
DRAWN BY QIN	DATE 12-27-05		FILE NAME 08452D1TE4PC.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A	REV. : PC SIZE : A4 PAGE : 4



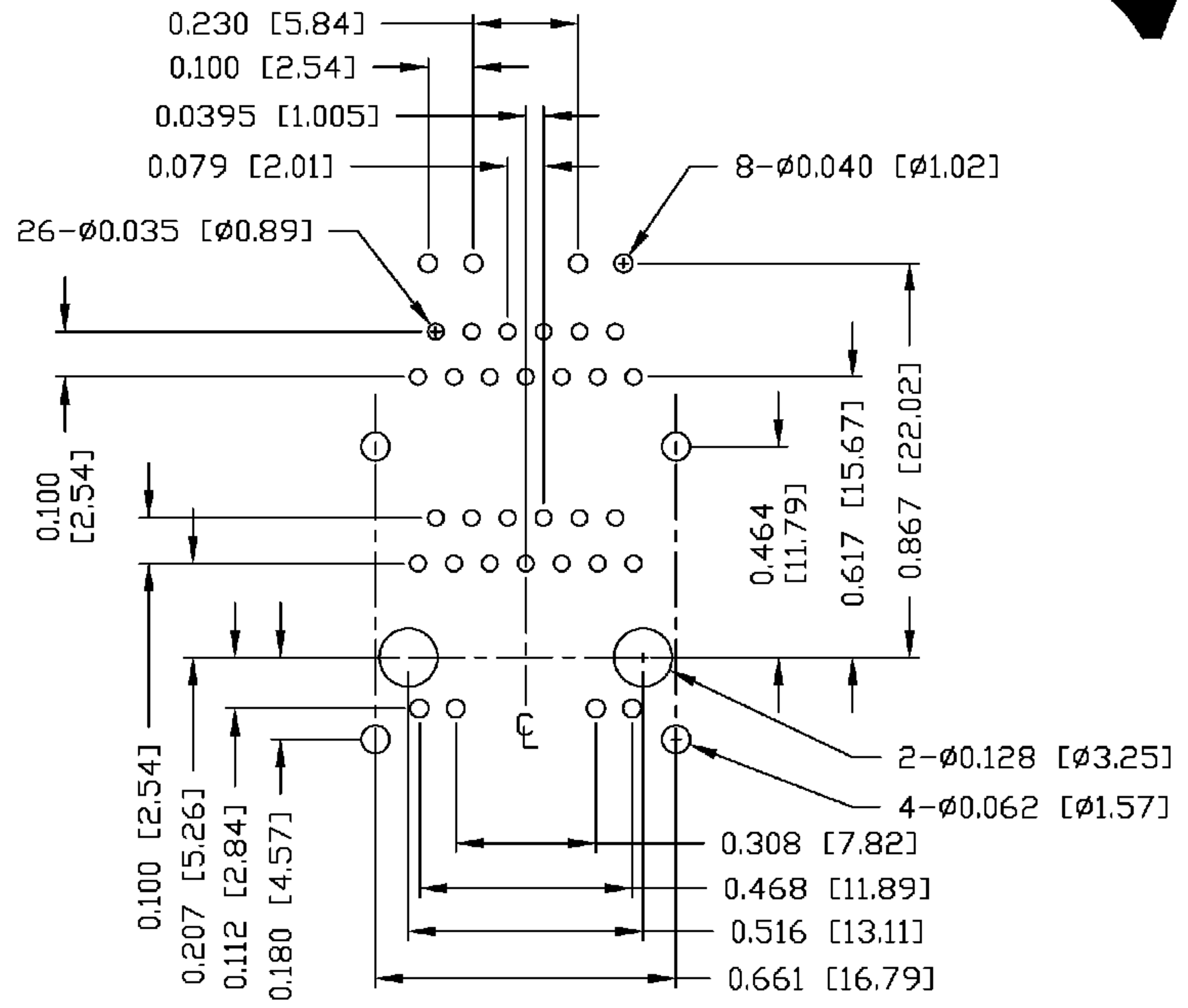
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PIN-OUT INFORMATION  
(COMPONENT SIDE VIEW)  
(SCALE 2:1)



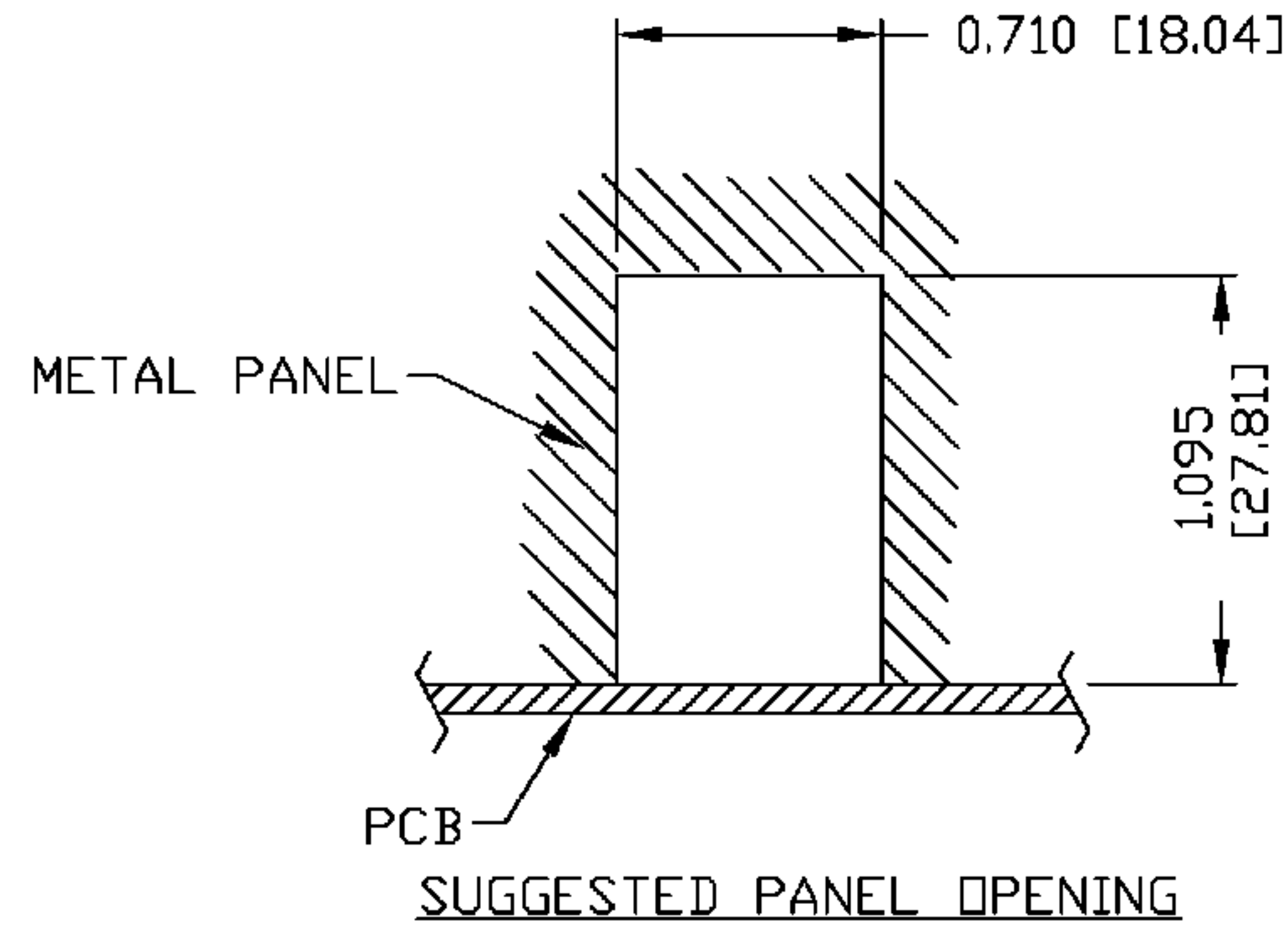
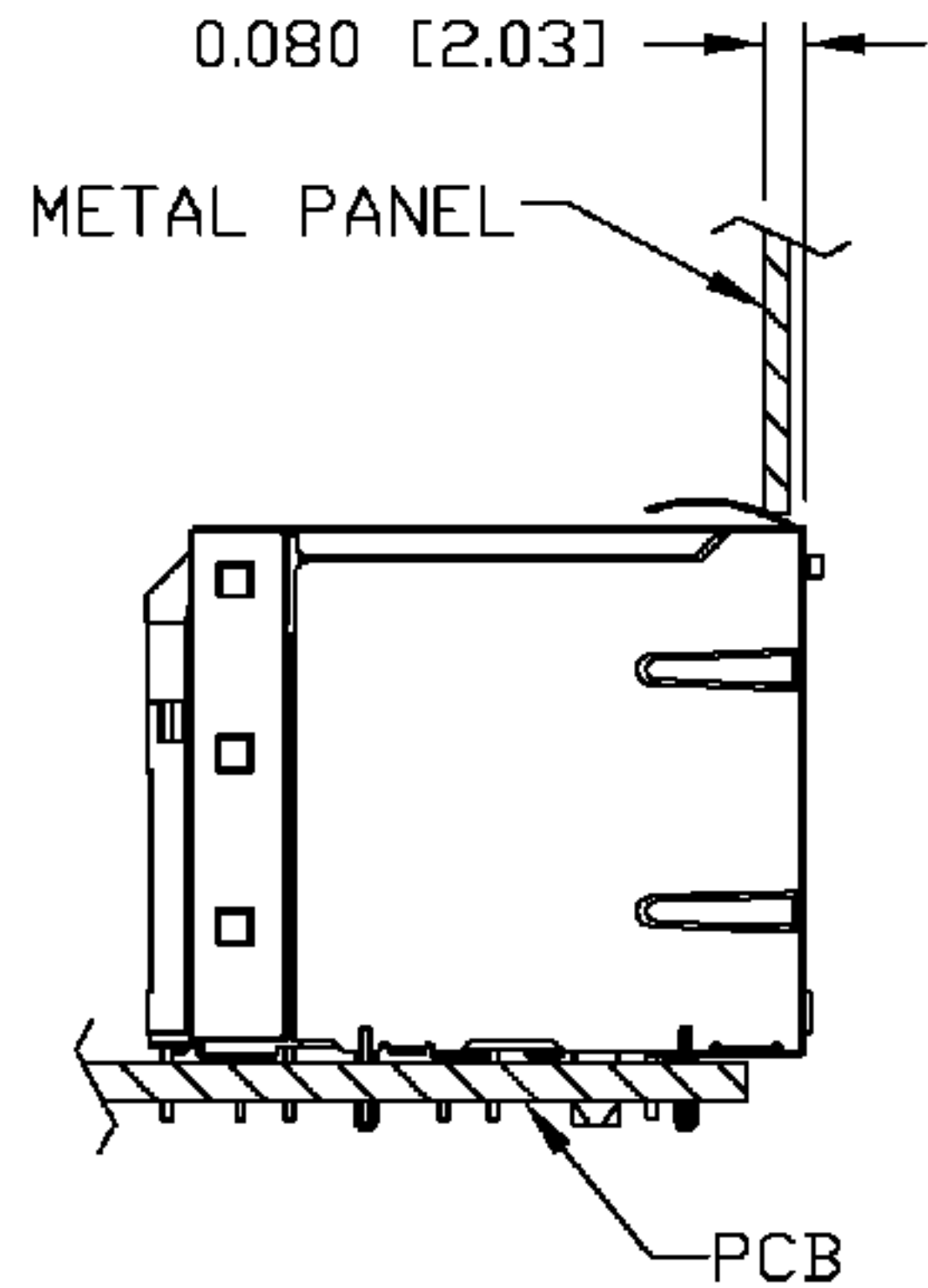
SUGGESTED FOOTPRINT  
(COMPONENT SIDE VIEW)  
(SCALE 2:1)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE
BILL KEUNG	12-27-05	2X1 gigabit MagJack® (with LED)	0845-2D1T-E4	.X	UNIT : INCH [mm] REV. : PC
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
QIN	12-27-05		08452D1TE4PC.DWG	.XXX ±0.004	PAGE : 5



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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. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE
BILL\KEUNG	12-27-05	2X1 gigabit MagJack® (with LED)	0845-2D1T-E4	.X	UNIT : INCH [mm] REV. : PC
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
QIN	12-27-05		08452D1TE4PC.DWG	.XXX ±0.004	⊕ PAGE : 6

