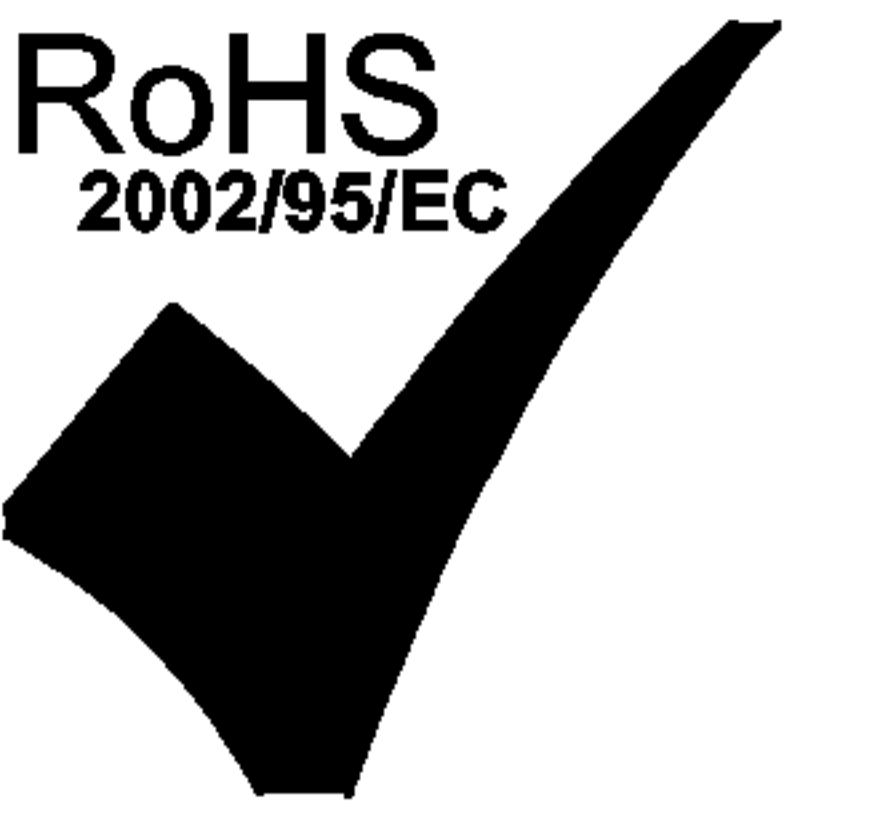


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PRELIMINARY

RoHS
2002/95/EC



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

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

QCL @ 100kHz,100mVRMS

8mA DC BIAS	350 μH MIN.
-------------	-------------

INS. LOSS

100KHz TO 100MHZ	-1.1 dB MAX
------------------	-------------

RET. LOSS (MIN)

1MHz-30MHz	-18 dB
30MHz-60MHz	-16 dB
60MHz-80MHz	-14 dB
80MHz-100MHz	-12 dB

CM TO CM REJ

100kHz - 100MHz	-25 dB TYP
-----------------	------------

CROSS TALK

1MHz - 60MHz	-35 dB TYP
60MHz - 100MHz	-25 dB TYP

HIPOT (Isolation Voltage): 1500 Vrms

100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

LEAKAGE INDUCTANCE

PRIMARY W/ SECONDARY SHORTED	0.3μH Max. @ 1MHz
------------------------------	-------------------

INTERWINDING CAPACITANCE

PER CHANNEL (PRI. TO SEC.)	50pF Max @ 1MHz
----------------------------	-----------------

DC RESISTANCE

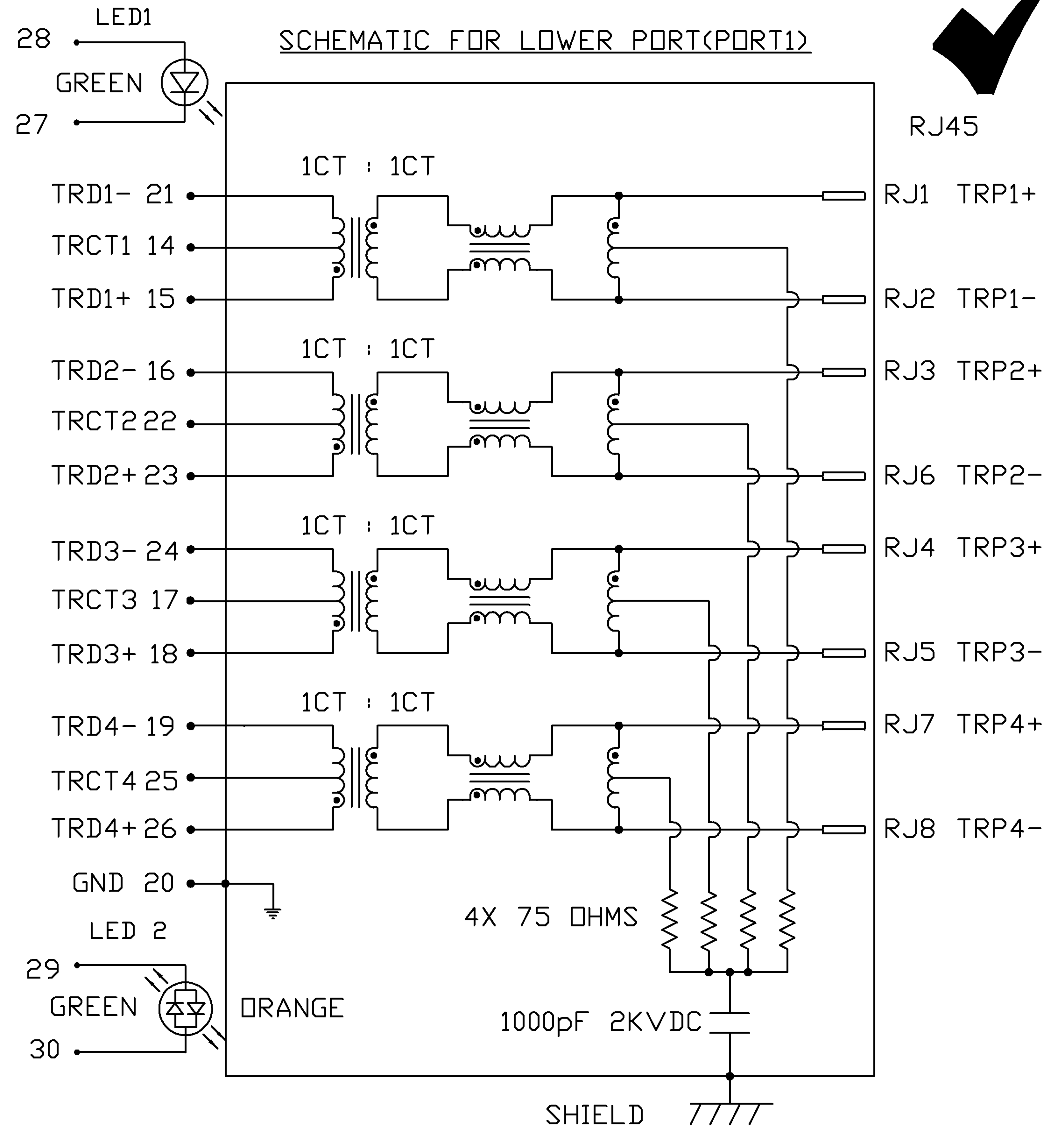
(21-15)=(16-23)=(24-18)=(19-26)	1.2 ohms Max
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max

LED 1

V _F (FORWARD VOLTAGE) IF=20mA GREEN	2.2V TYP.
λ _D (DOMINANT WAVELENGTH)IF=20mA GREEN	565nm TYP.

LED 2

V _F (FORWARD VOLTAGE) IF=20mA GREEN	2.2V TYP.
V _F (FORWARD VOLTAGE) IF=20mA ORANGE	2.0V TYP.
λ _D (DOMINANT WAVELENGTH)IF=20mA GREEN	565nm TYP.
λ _D (DOMINANT WAVELENGTH)IF=20mA ORANGE	610nm TYP.



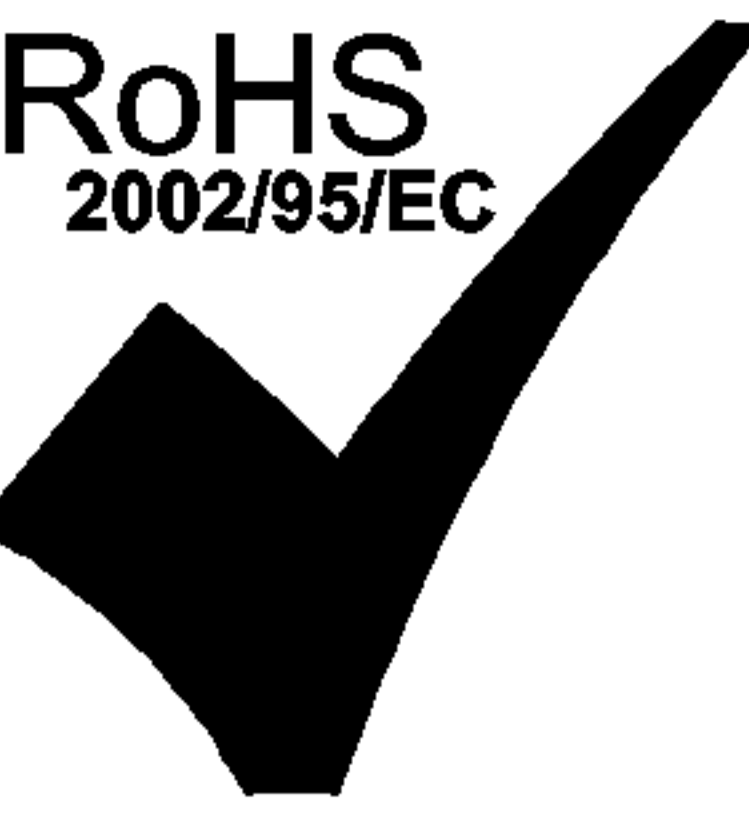
ORIGINATED BY	DATE	TITLE
CHOW WANGCHUNG	11-06-08	2X1 gigabit MagJack®
DRAWN BY	DATE	(with LED)
WEIDE LEE	11-06-08	

PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
0845-2M1T-E4	.X	UNIT : INCH [mm]
FILE NAME	.XX	SCALE : N/A
0845-2M1T-E4_PC.DWG	.XXX	REV. : PC
		SIZE : A4
		PAGE : 2

		<p>COMPONENTS FOR A CONNECTED PLANET</p>

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PRELIMINARY

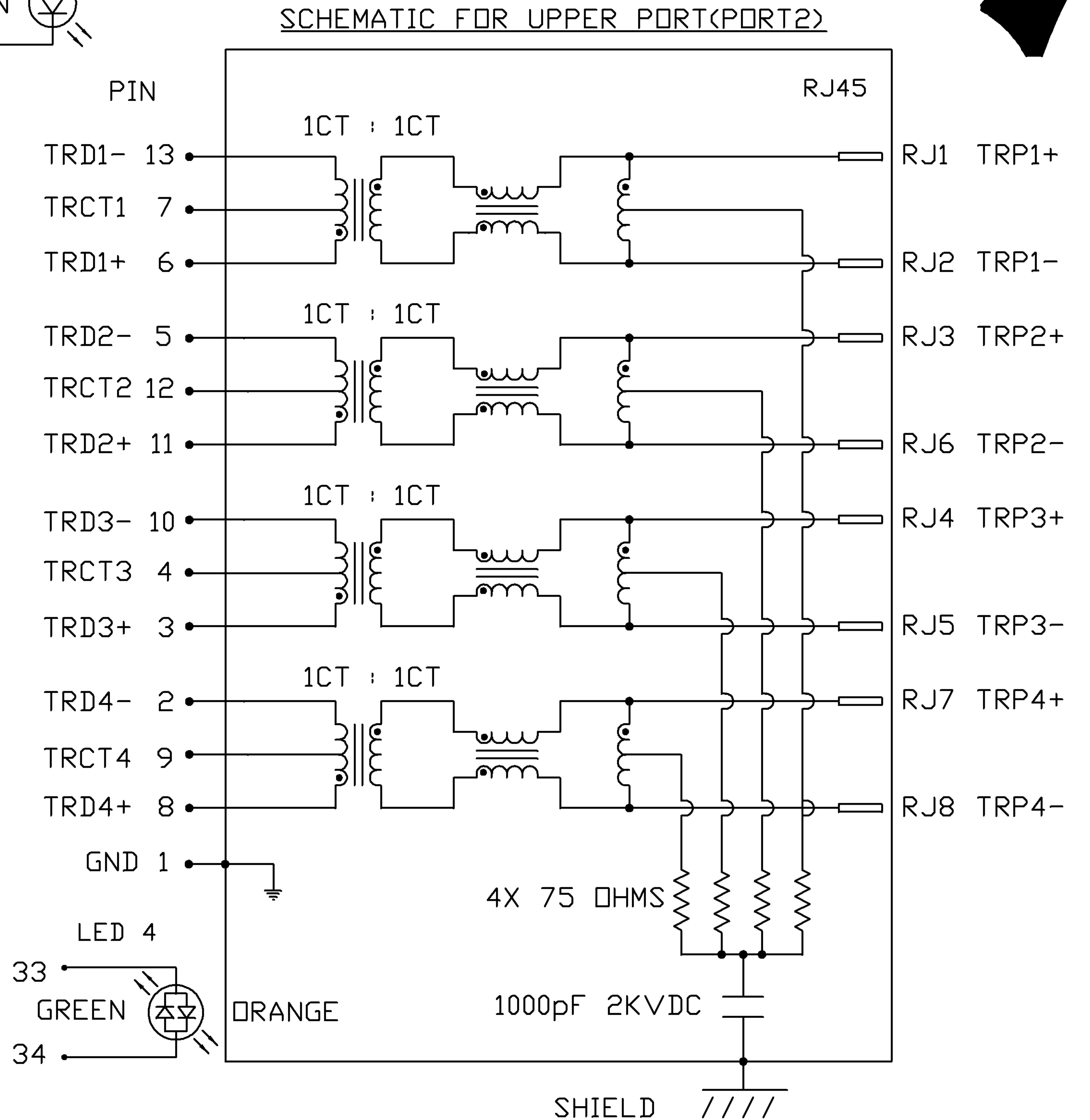
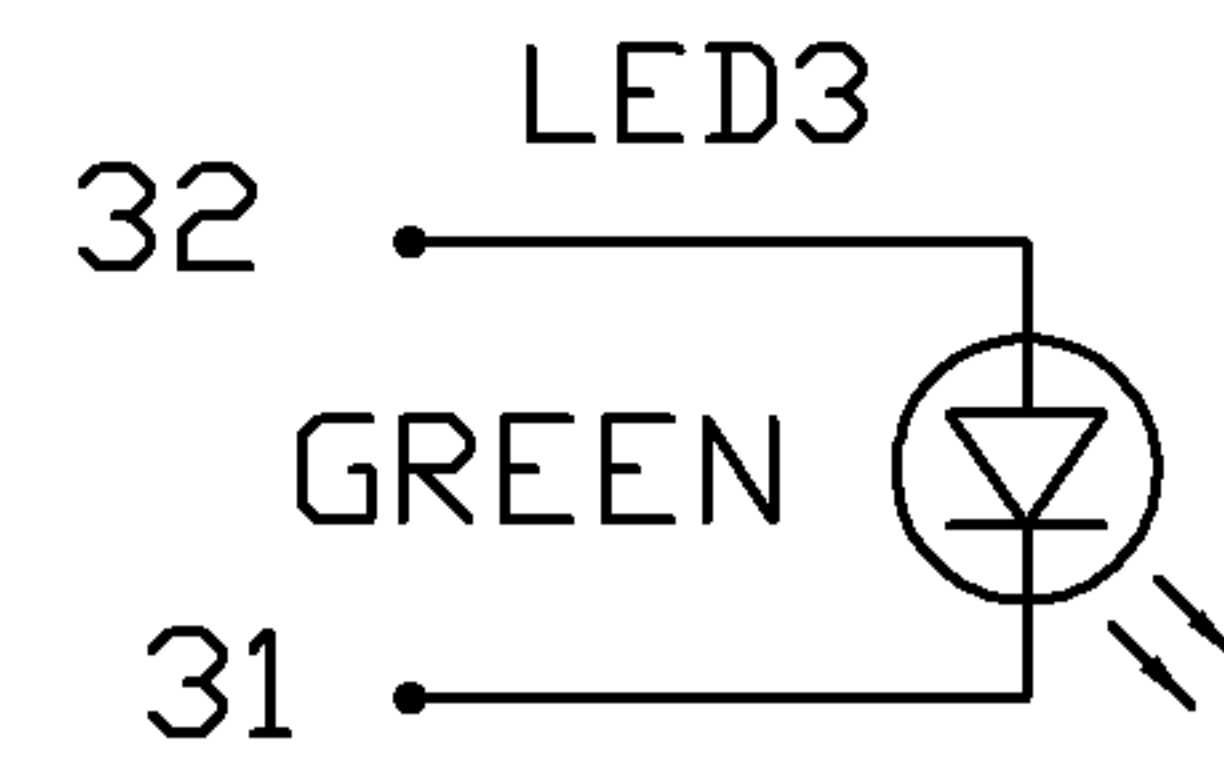


LED3 POLARITY			LED4 POLARITY		
PIN 31	PIN 32	COLOR	PIN 33	PIN 34	COLOR
-	+	GREEN	-	+	GREEN
			+	-	ORANGE

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%
DCL @ 100kHz,100mVRMS 8mA DC BIAS	350 µH MIN.
INS. LOSS 100KHz TO 100MHz	-1.1 dB MAX
RET. LOSS (MIN) 1MHz-30MHz	-18 dB
30MHz-60MHz	-16 dB
60MHz-80MHz	-14 dB
80MHz-100MHz	-12 dB
CM TO CM REJ 100kHz - 100MHz	-25 dB TYP
CROSS TALK 1MHz - 60MHz	-35 dB TYP
60MHz - 100MHz	-25 dB TYP
HIPOT (Isolation Voltage): 100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.	1500 Vrms
LEAKAGE INDUCTANCE PRIMARY W/ SECONDARY SHORTED	0.3µH Max. @ 1MHz
INTERWINDING CAPACITANCE PER CHANNEL (PRI. TO SEC.)	50pF Max @ 1MHz
DC RESISTANCE (13-6)=(5-11)=(10-3)=(2-8)	1.2 ohms Max
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max
LED 3 (Super Bright) VF (FORWARD VOLTAGE) IF=20mA GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH)IF=20mA GREEN	565nm TYP.
LED 4 (Super Bright) VF (FORWARD VOLTAGE) IF=20mA GREEN	2.2V TYP.
ORANGE	2.0V TYP.
λD (DOMINANT WAVELENGTH)IF=20mA GREEN	565nm TYP.
ORANGE	610nm TYP.

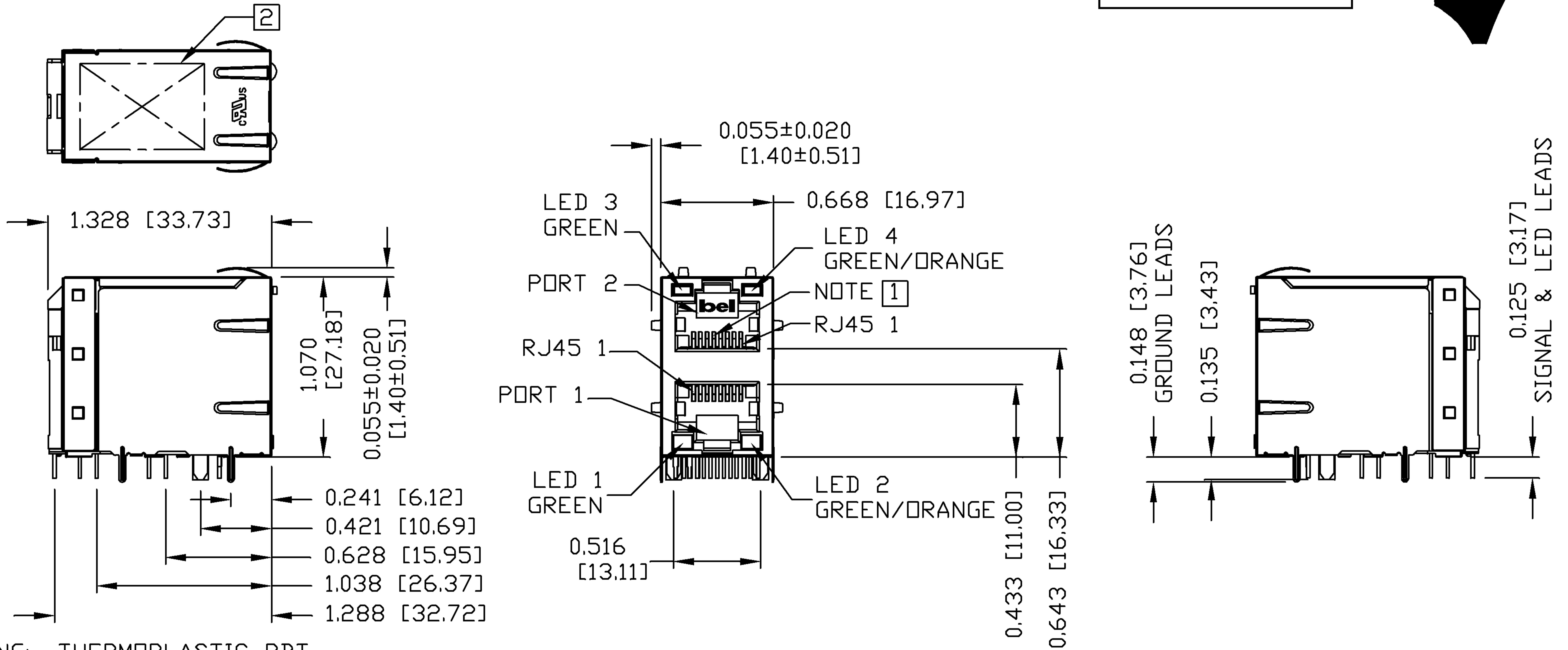
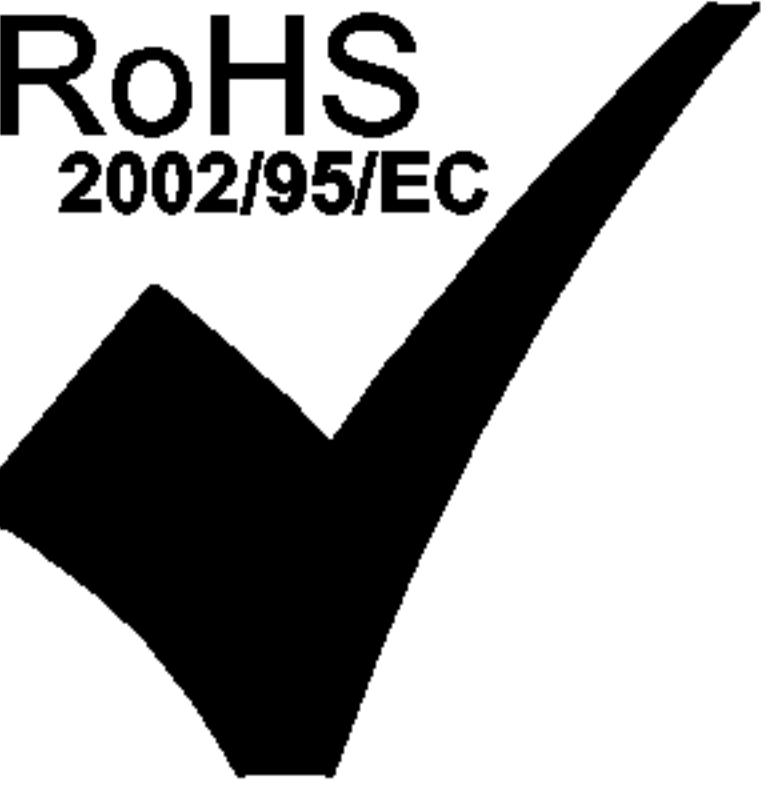


ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
CHOW WANGCHUNG	11-06-08	2X1 gigabit MagJack® (with LED)	0845-2M1T-E4	.X	UNIT : INCH [mm] REV. : PC
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
WEIDE LEE	11-06-08		0845-2M1T-E4_PC.DWG	.XXX	PAGE : 3



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PRELIMINARY



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.

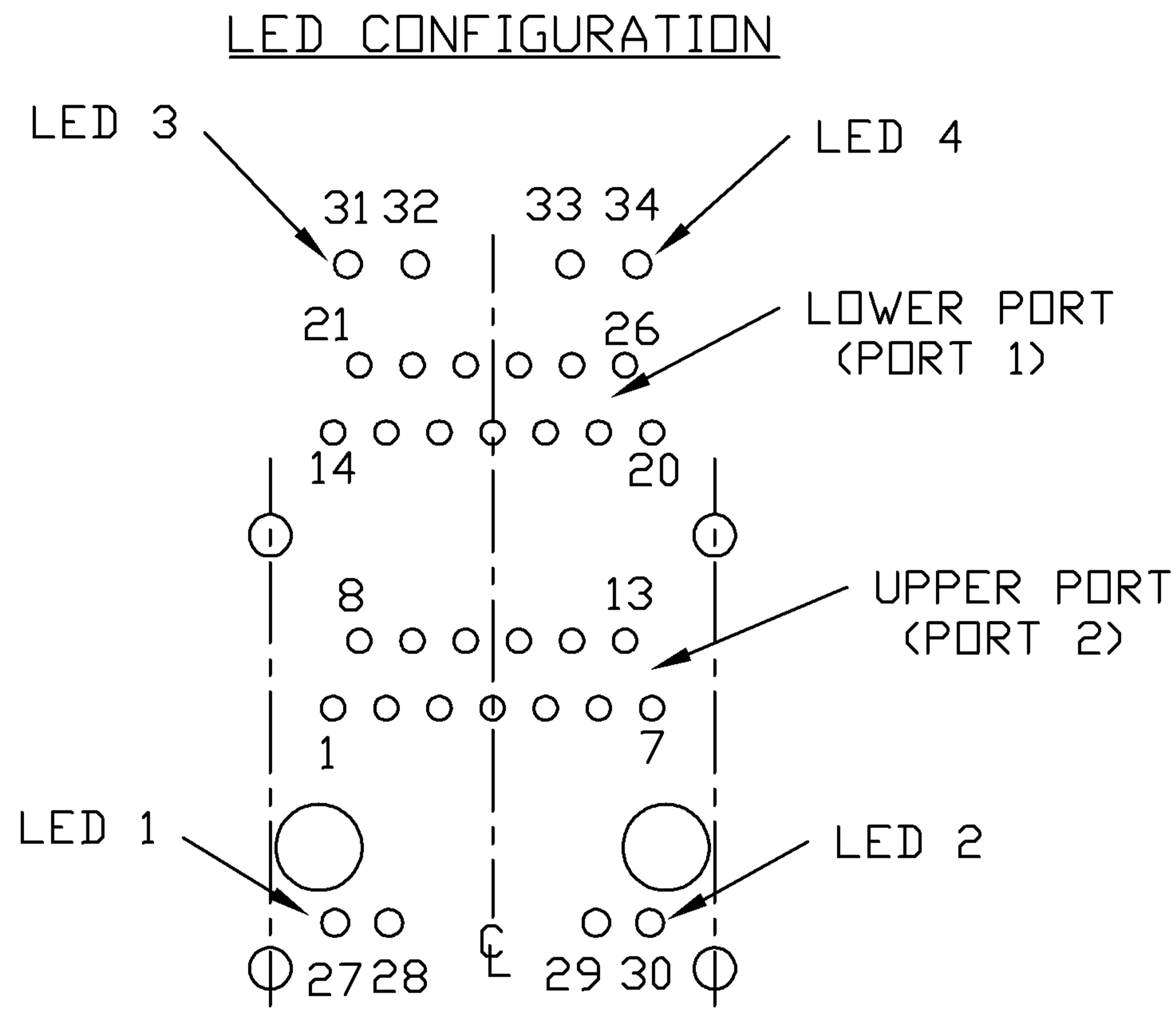
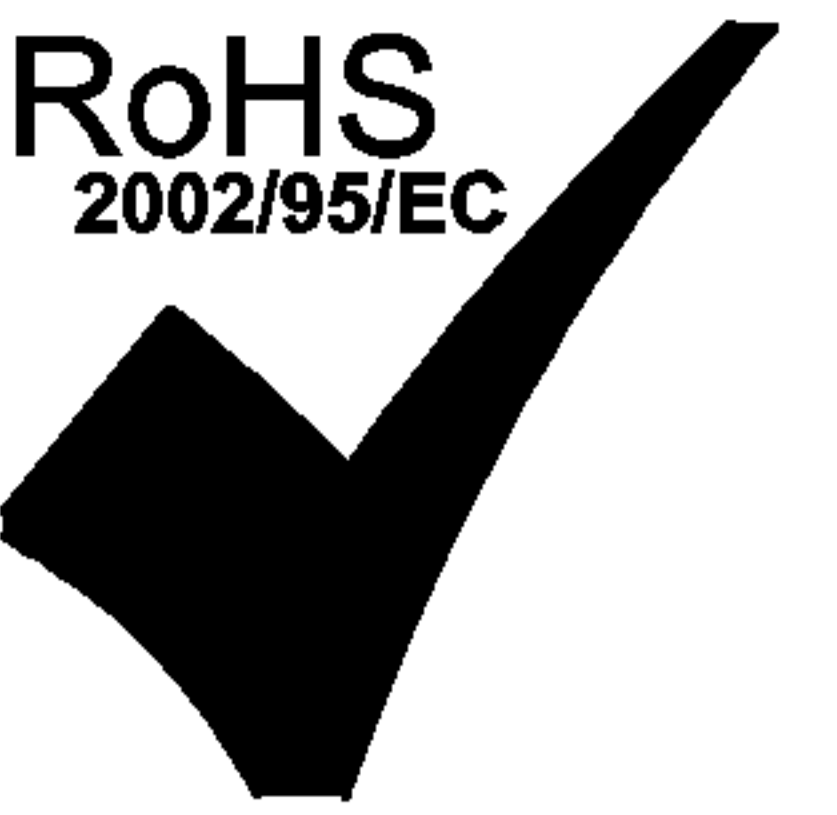
- 1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- 2. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

c usUL RECOGNIZED - FILE #E196366 AND E169987.

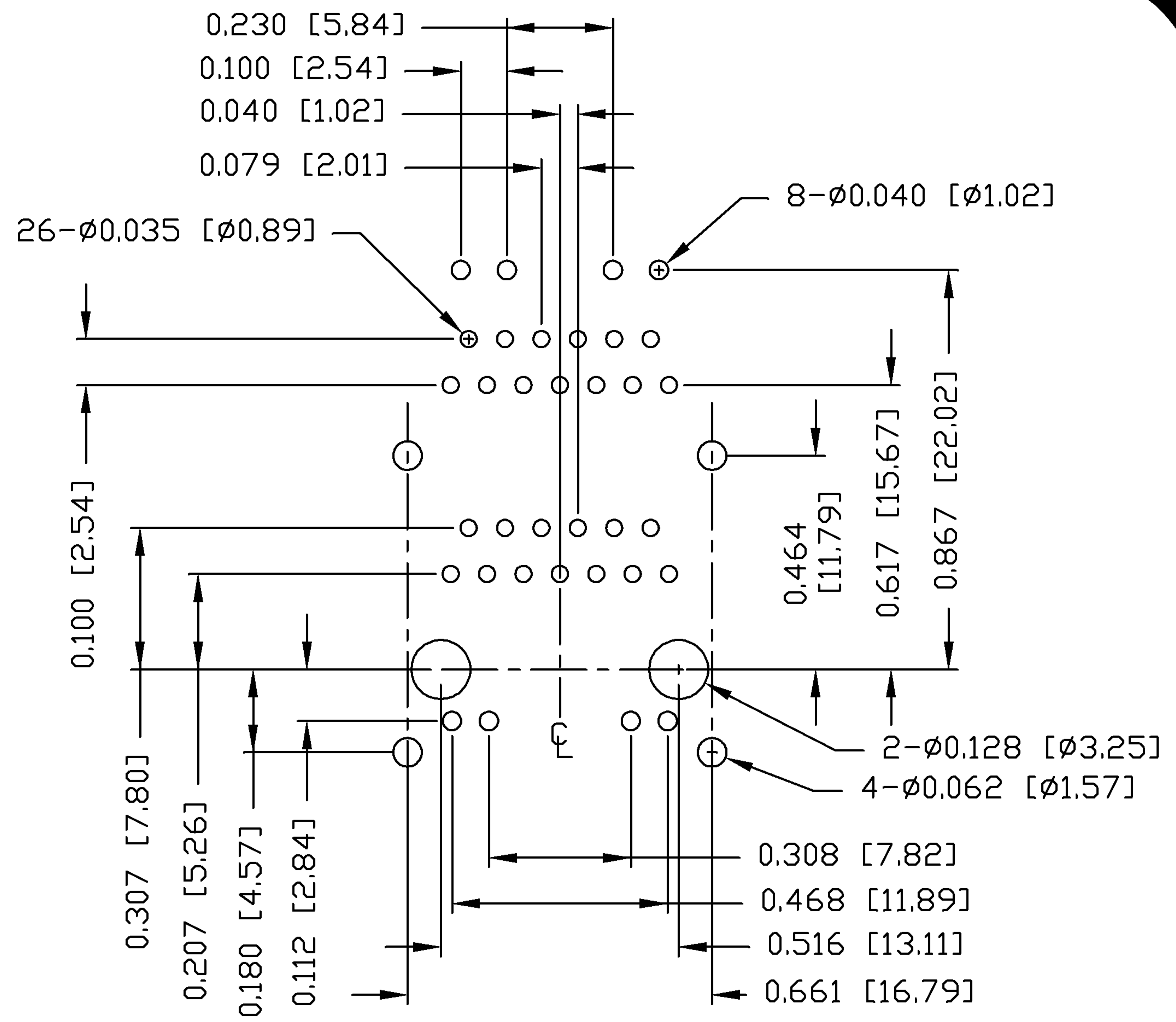
ORIGINATED BY CHEN BILL	DATE 11-06-08	TITLE 2X1 gigabit MagJack® (with LED)	PART NO. / DRAWING NO. 0845-2M1T-E4	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY XIAN JIAXIN	DATE 11-06-08		FILE NAME 0845-2M1T-E4_PC.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A	
				±0.010		

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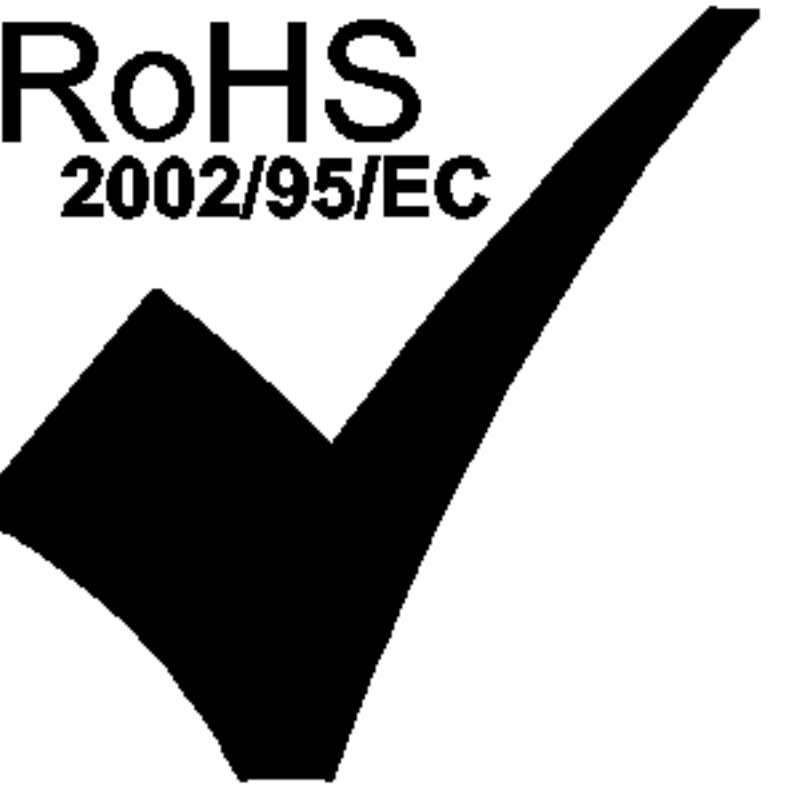
PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)
(SCALE 2:1)



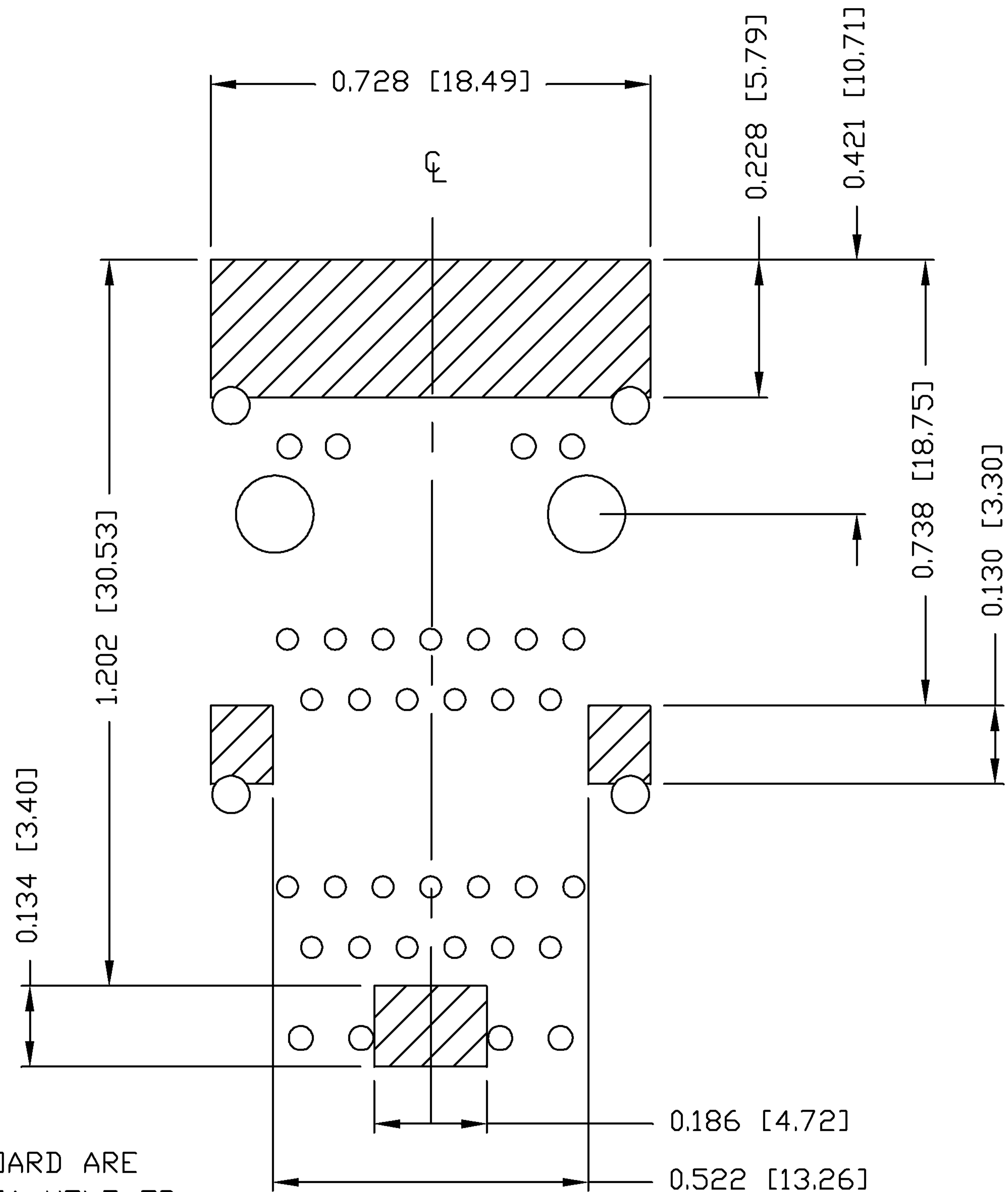
SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)
(SCALE 2:1)

ORIGINATED BY CHEN BILL	DATE 11-06-08	TITLE 2X1 gigabit MagJack® (with LED)	PART NO. / DRAWING NO. 0845-2M1T-E4	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY XIAN JIAXIN	DATE 11-06-08		FILE NAME 0845-2M1T-E4_PC.DWG	.X	UNIT : INCH [mm]	
			.XX	SCALE : N/A	SIZE : A4	
			.XXX	±0.004	PAGE : 5	

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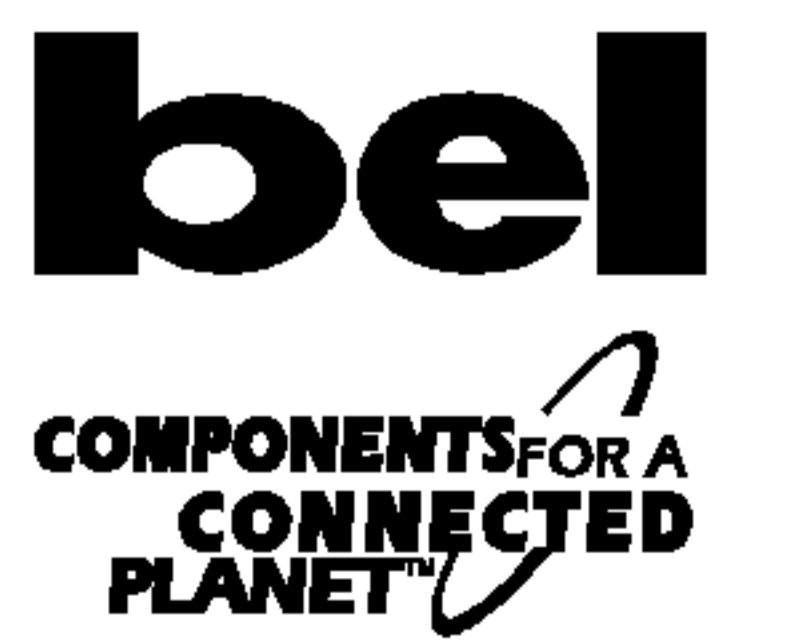
PRELIMINARY



NOTES

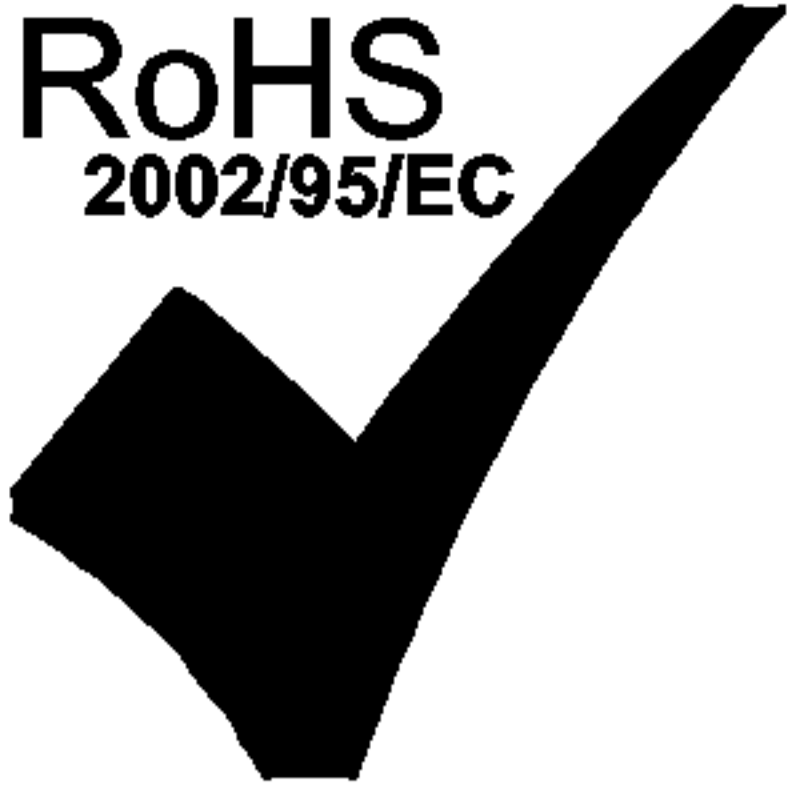
THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

ORIGINATED BY CHEN BILL	DATE 11-06-08	TITLE 2X1 gigabit MagJack® (with LED)	PART NO. / DRAWING NO. 0845-2M1T-E4	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
DRAWN BY XIAN JIAXIN	DATE 11-06-08		FILE NAME 0845-2M1T-E4_PC.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A	REV. : PC SIZE : A4 PAGE : 6
				±0.004		

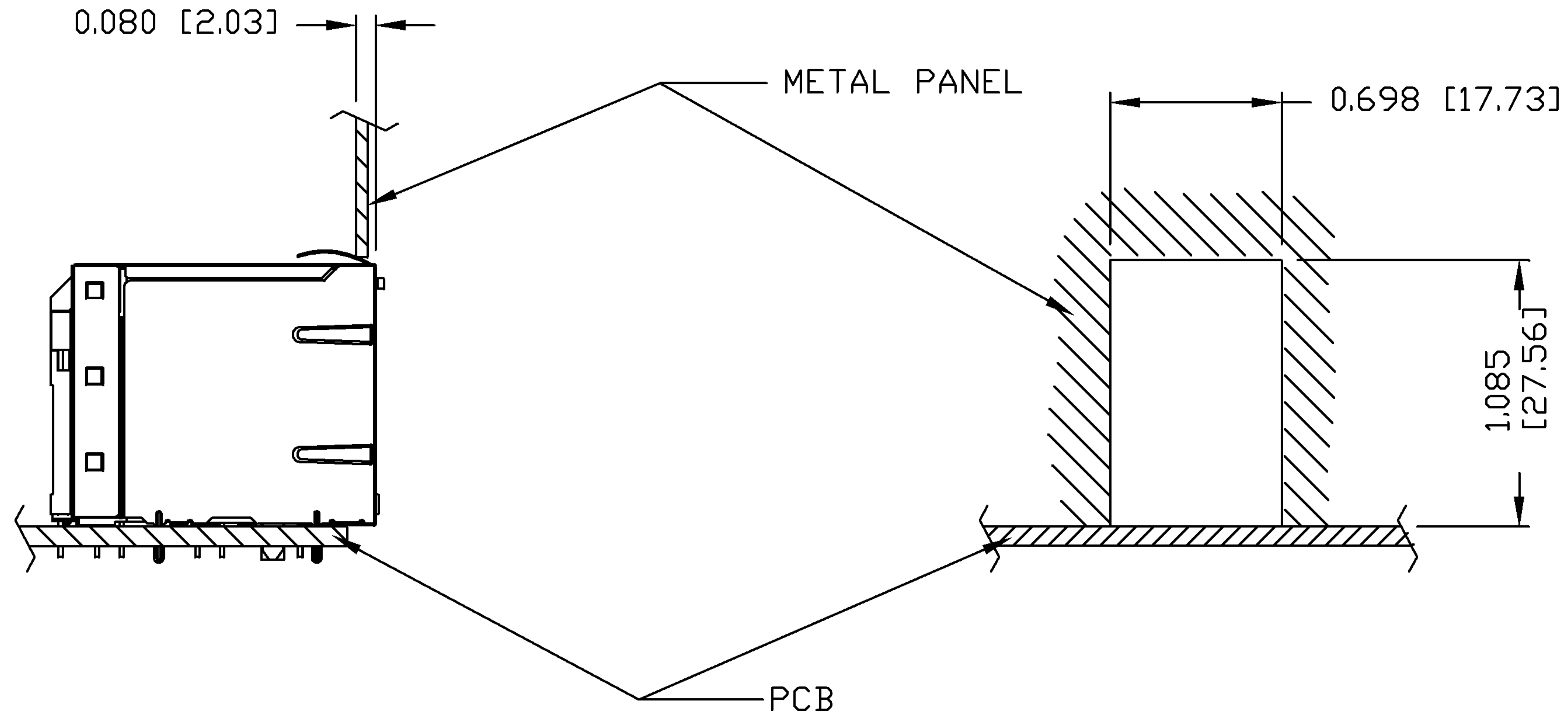


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PRELIMINARY



SUGGESTED PANEL OPENING



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 CHEN BILL	DATE 11-06-08	TITLE 2X1 gigabit MagJack® (with LED)	PART NO. / DRAWING NO. 0845-2M1T-E4	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
DRAWN BY XIAN JIAXIN	DATE 11-06-08		FILE NAME 0845-2M1T-E4_PC.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A	REV. : PC SIZE : A4 PAGE : 7
				±0.004		

