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

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	350 μH MIN.
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INS. LOSS

100kHz TO 100MHz	-1.1 dB MAX
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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
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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
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INTERWINDING CAPACITANCE

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

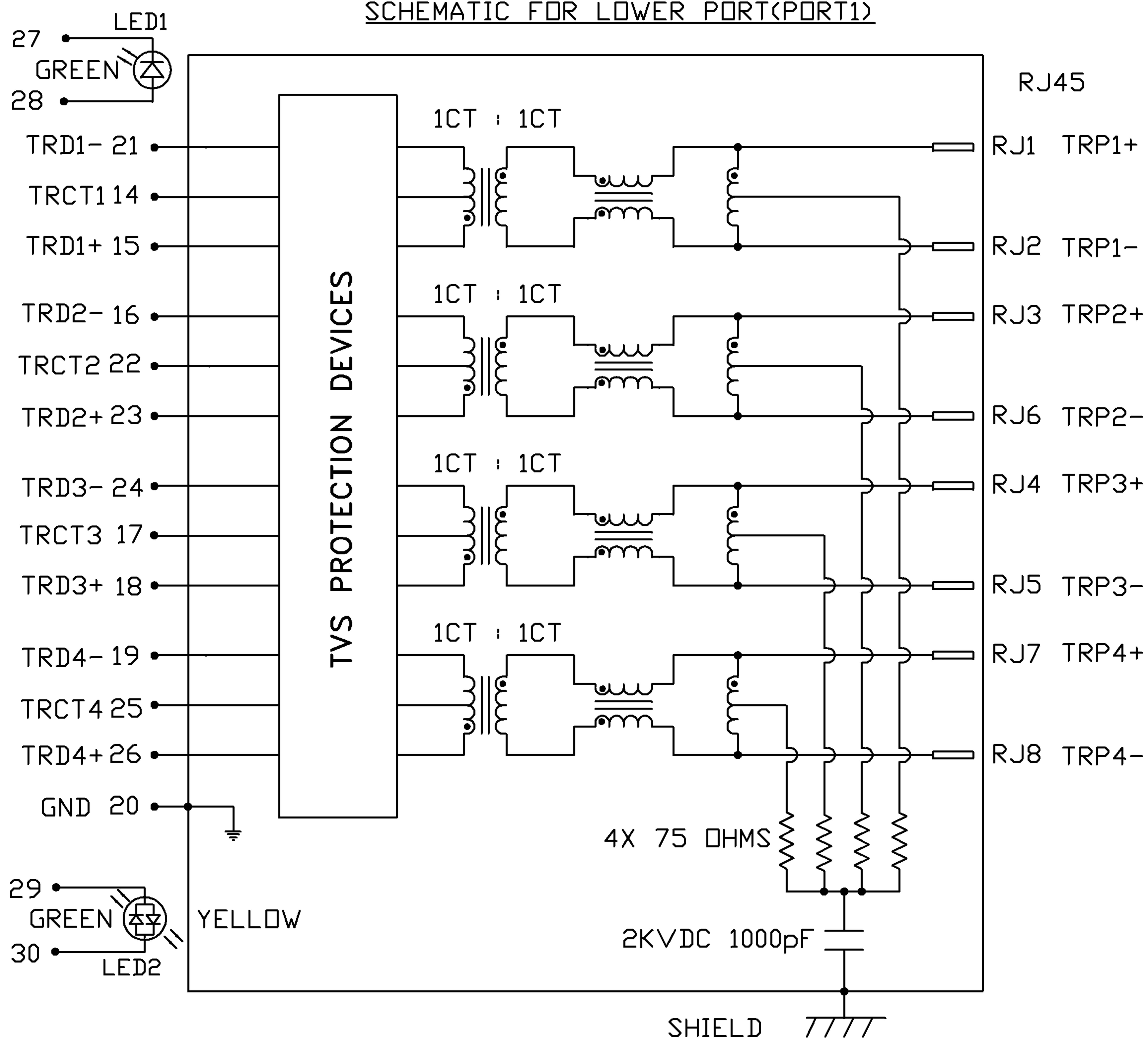
(21-15)=(16-23)=(24-18)=(19-26)	1.2 ohms Max
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max

LED 1

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

LED 2

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.



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
WANGCHUNG CHOW	11-06-08	2X1 gigabit MagJack® (with LED)	0845-2R1T-BN	.X	UNIT : INCH [mm] REV. : PB
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
WEIDE LEE	11-06-08		0845-2R1T-BN_PB.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

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RoHS
2002/95/EC



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 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

(13-6)=(5-11)=(10-3)=(2-8)	1.2 ohms Max
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max

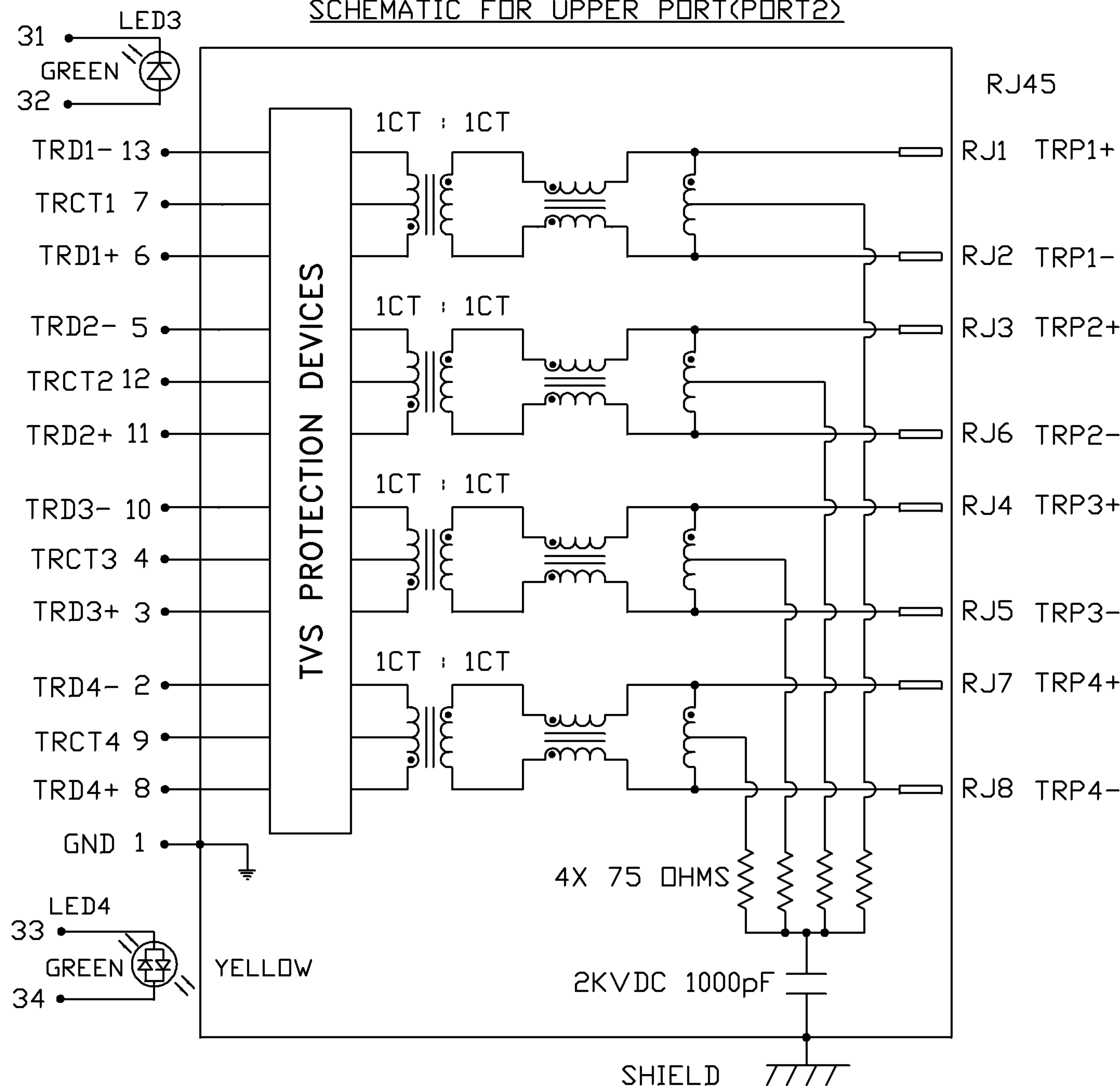
LED 3 (Super bright)

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

SCHEMATIC FOR UPPER PORT(PORT2)



ORIGINATED BY	DATE
WANGCHUNG CHOW	11-06-08

DRAWN BY	DATE
WEIDE LEE	11-06-08

TITLE
2X1 gigabit MagJack® (with LED)

PART NO. / DRAWING NO.
0845-2R1T-BN
FILE NAME
0845-2R1T-BN_PB.DWG

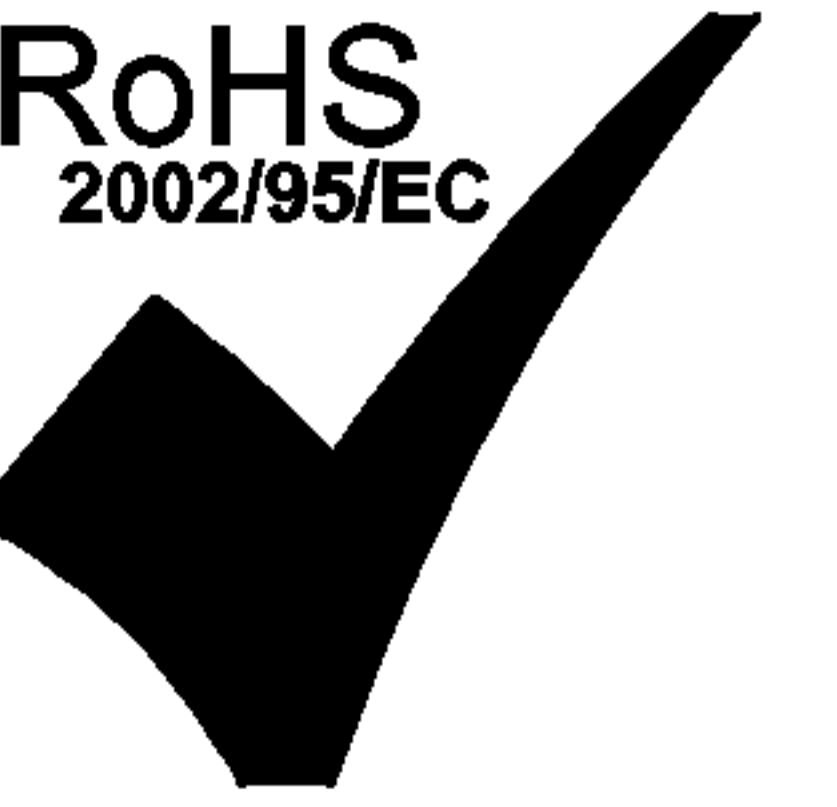
STANDARD DIM.	TOL. IN INCH
.X	
.XX	
.XXX	

[] METRIC DIM. AS REFERENCE
UNIT : INCH [mm]
SCALE : N/A
REV. : PB
SIZE : A4
PAGE : 3

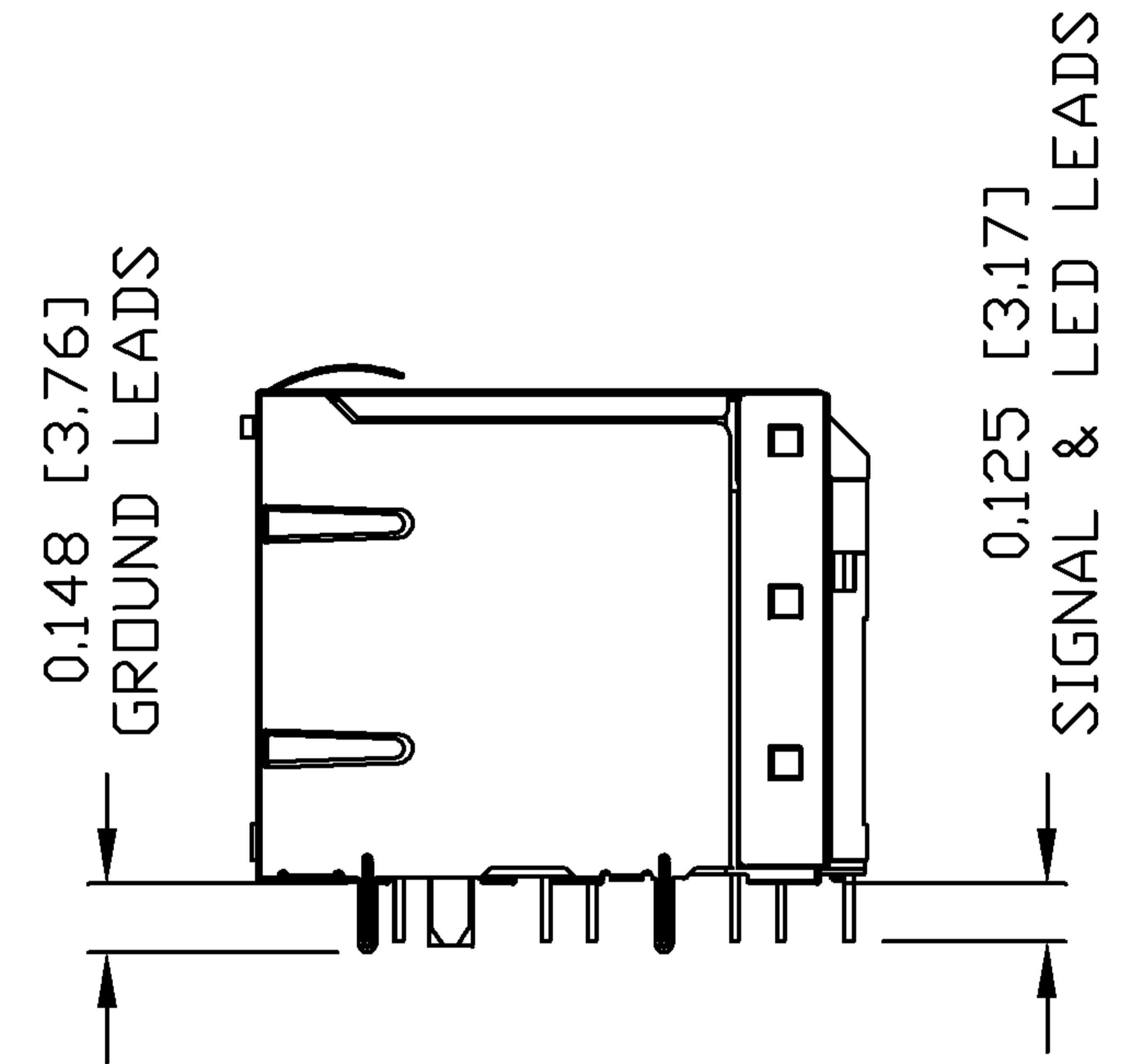
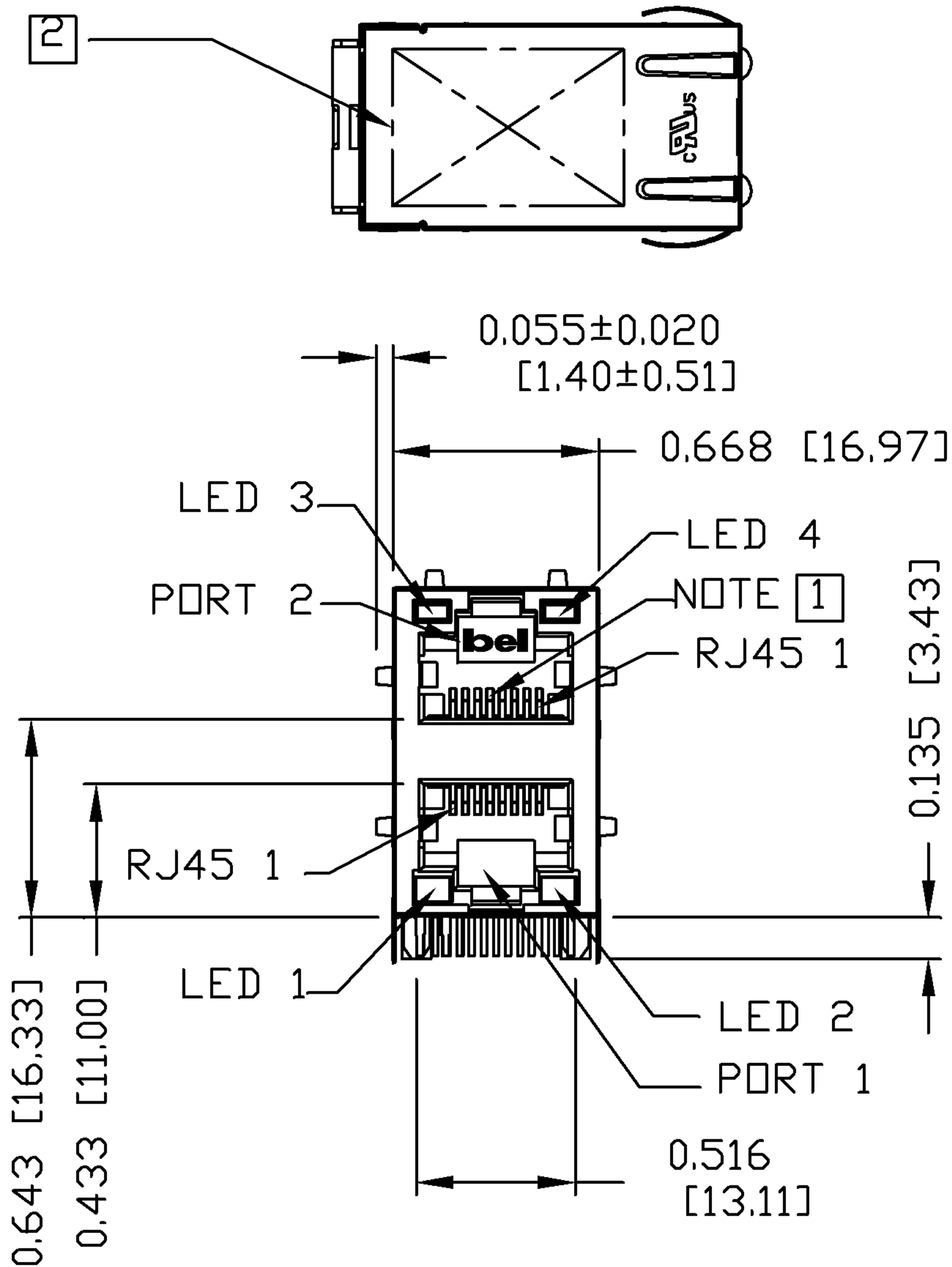
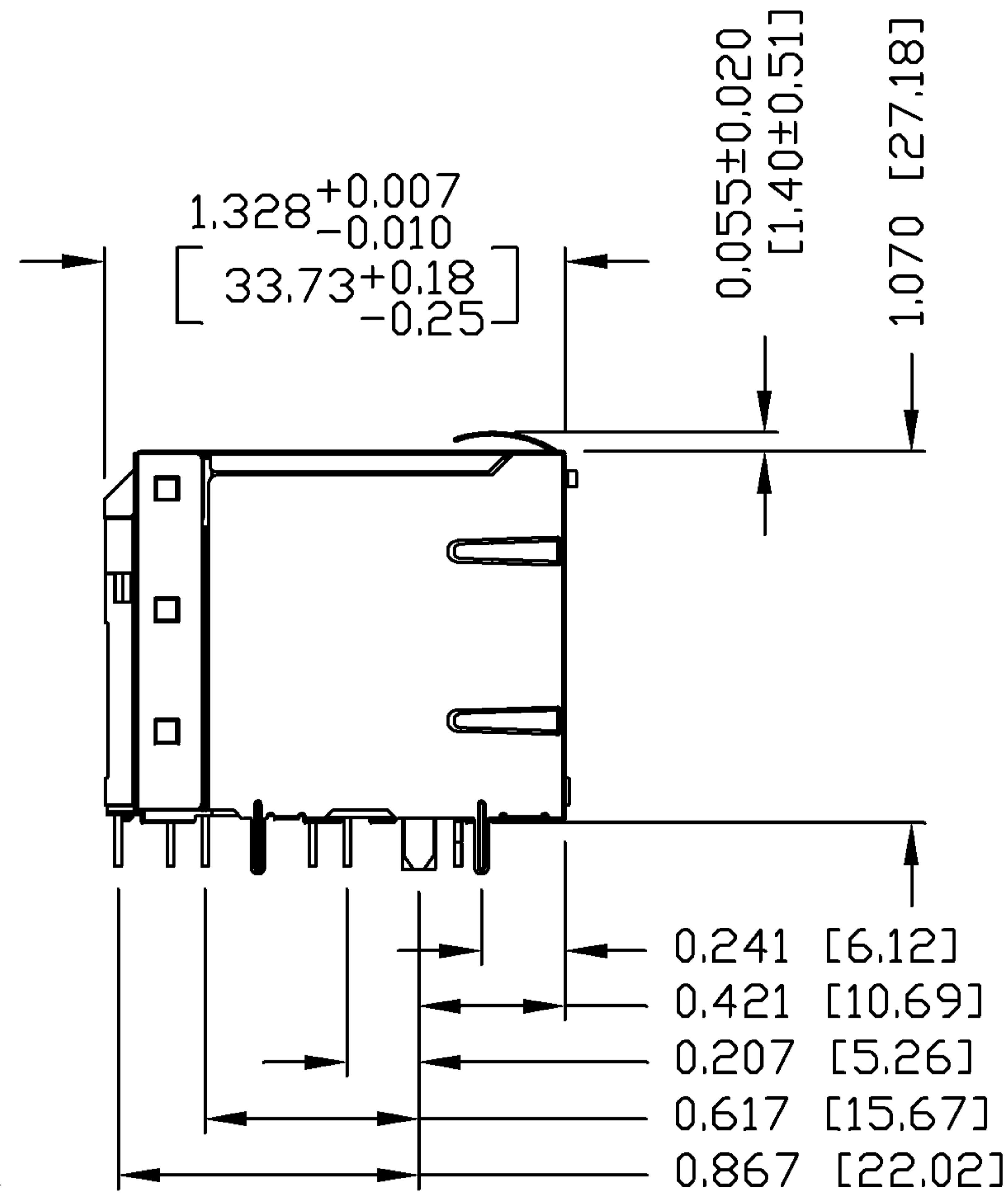


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NOTES:

- 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.

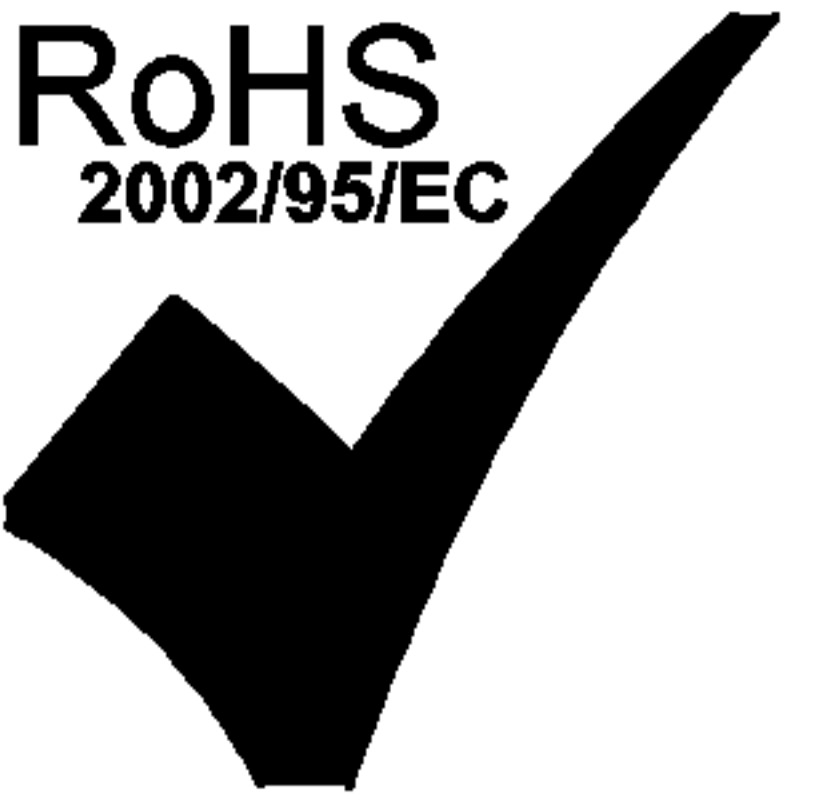
c UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY CHEN BILL	DATE 11-06-08	TITLE 2X1 gigabit MagJack® (with LED)	PART NO. / DRAWING NO. 0845-2R1T-BN	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	 COMPONENTS FOR A CONNECTED PLANET	
DRAWN BY XIAN JIAXIN	DATE 11-06-08		FILE NAME 0845-2R1T-BN_PB.DWG	.X	UNIT : INCH [mm]		REV. : PB
				.XX	SCALE : N/A		SIZE : A4
			.XXX	±0.010	PAGE : 4		

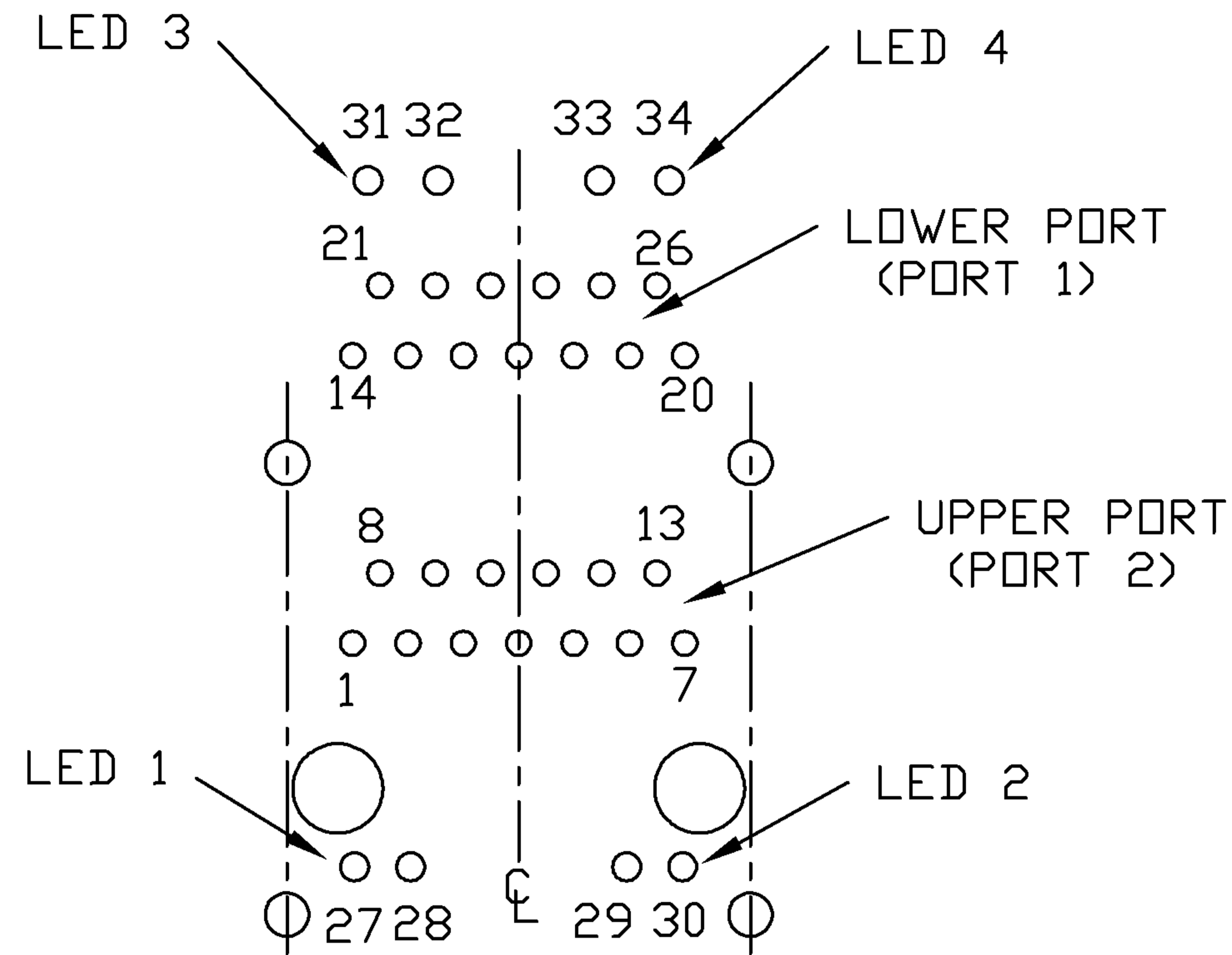
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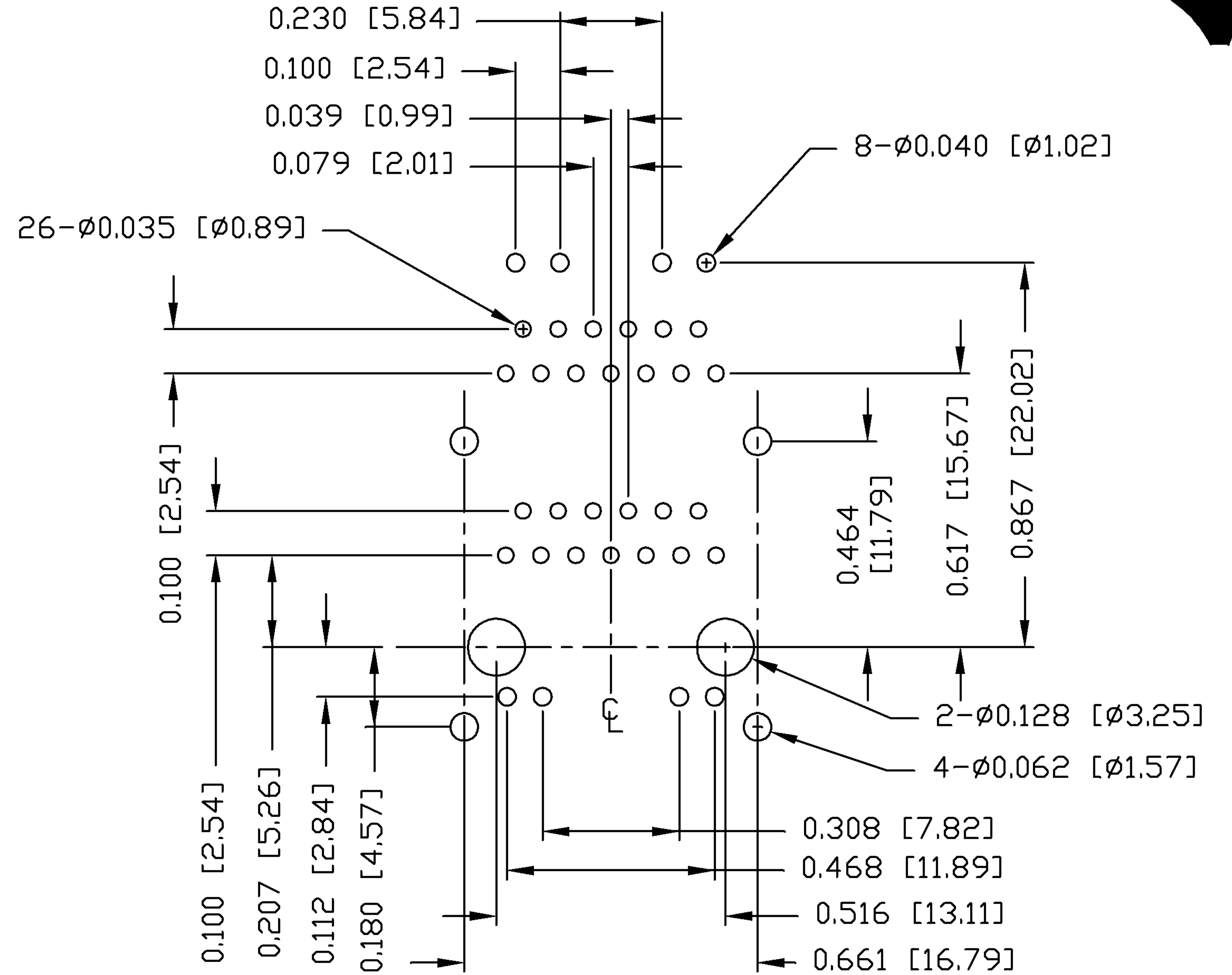
PRELIMINARY



LED CONFIGURATION

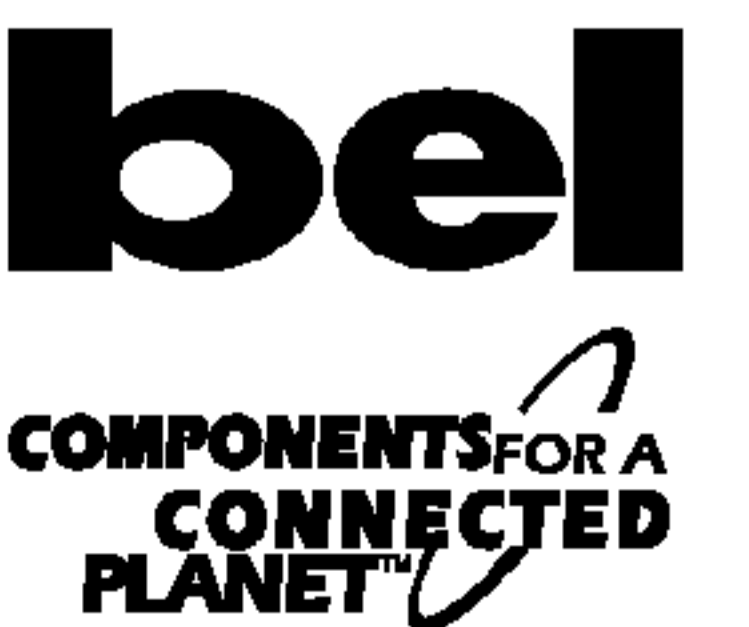


PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)
(SCALE 2:1)



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

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DRAWN BY XIAN JIAXIN	DATE 11-06-08		FILE NAME 0845-2R1T-BN_PB.DWG	.X .XX .XXX	±0.004

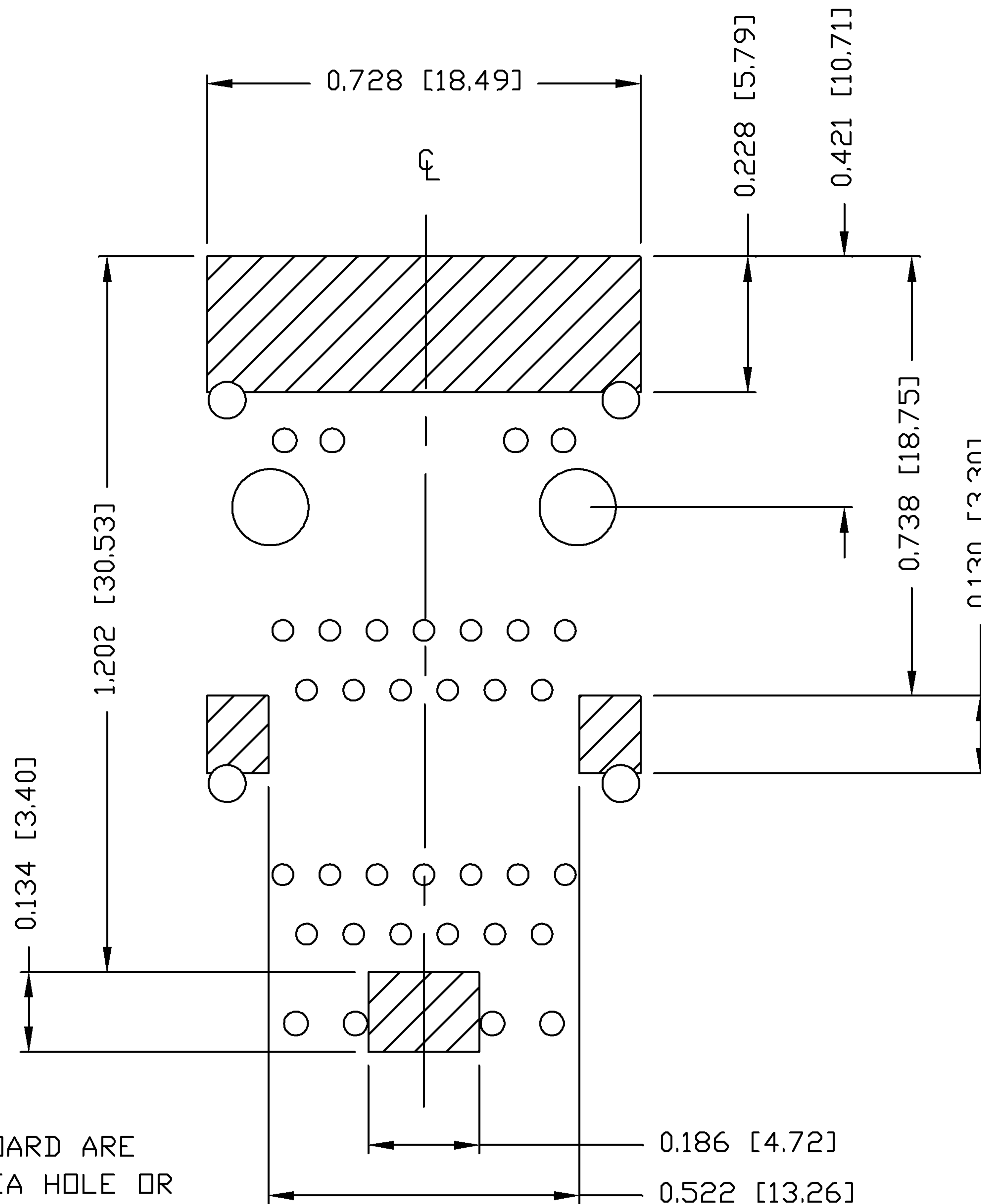


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NOTES

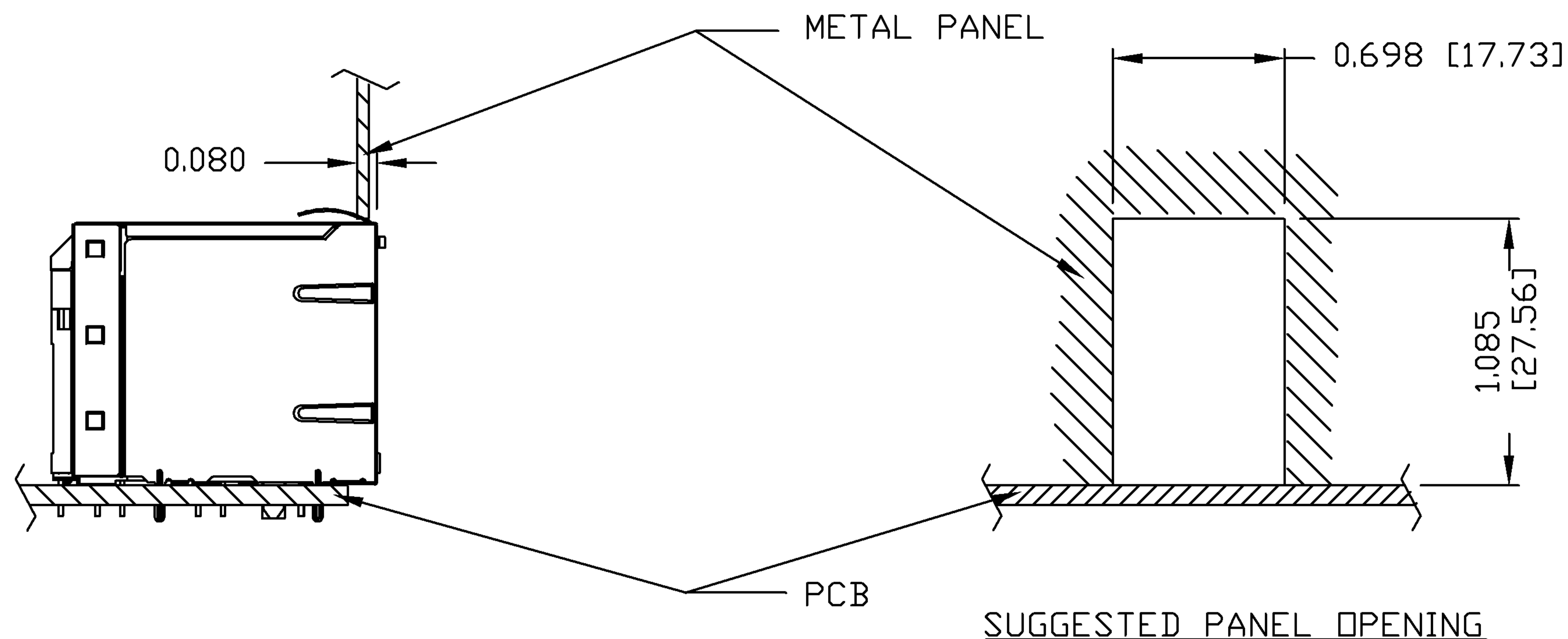
THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

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DRAWN BY XIAN JIAXIN	DATE 11-06-08		FILE NAME 0845-2R1T-BN_PB.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A	REV. : PB SIZE : A4 PAGE : 6
				±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)

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DRAWN BY XIAN JIAXIN	DATE 11-06-08		FILE NAME 0845-2R1T-BN_PB.DWG	.X .XX .XXX	±0.004	UNIT : INCH [mm] SCALE : N/A	