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RoHS  
2002/95/EC



PRELIMINARY

LED 2 & 4 POLARITY			LED 1 & 3 POLARITY		
PIN 11	PIN 12	COLOR	PIN 13	PIN 14	COLOR
+	-	GREEN	+	-	YELLOW
-	+	ORANGE			

SCHEMATIC

RJ45

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

350µH MIN.

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

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

100% OF PRODUCTION TESTED

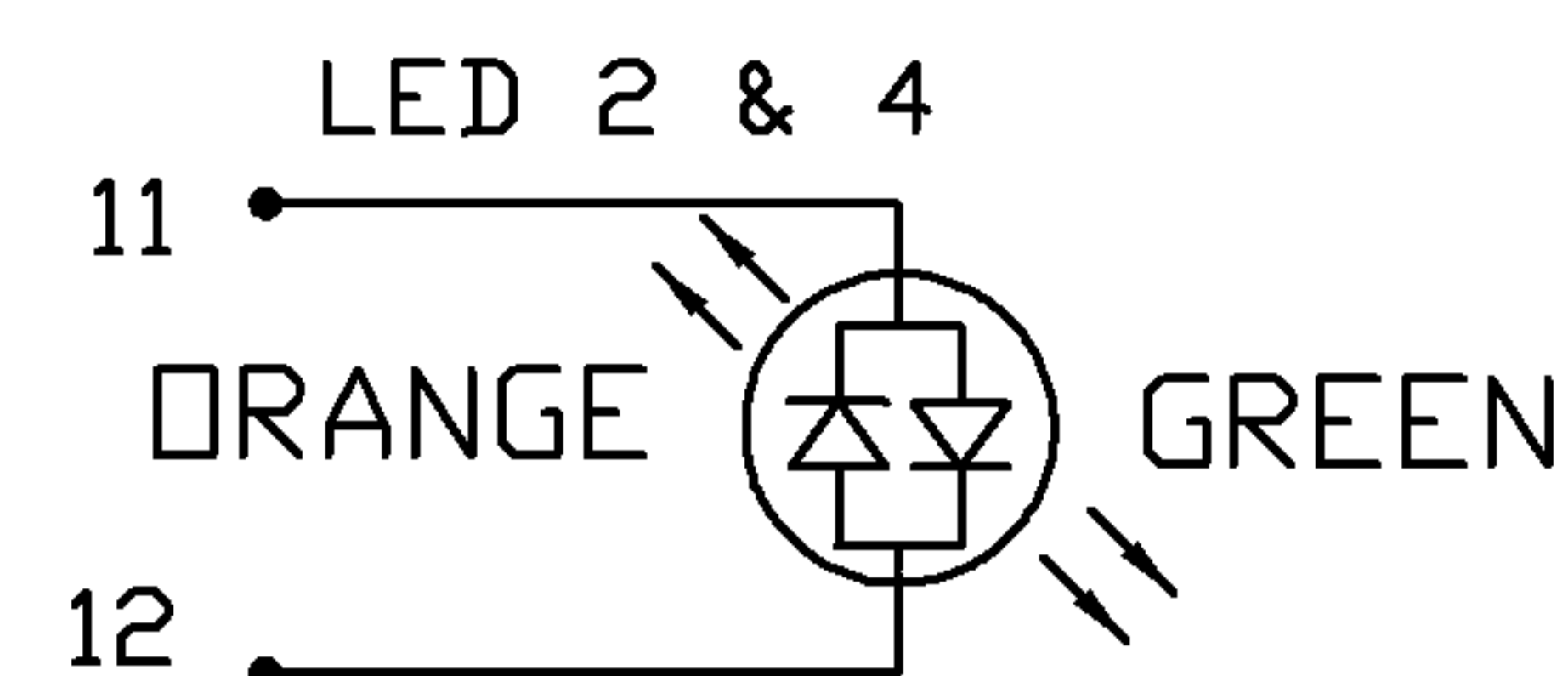
TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS

LED 2 & 4

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

LED 1 & 3

VF (FORWARD VOLTAGE)	IF=20mA	YELLOW	2.1V TYP.
λ D (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	590nm TYP.



TRD1- 1

TRD1+ 2

TRD2- 3

TRD2+ 4

TRD3- 5

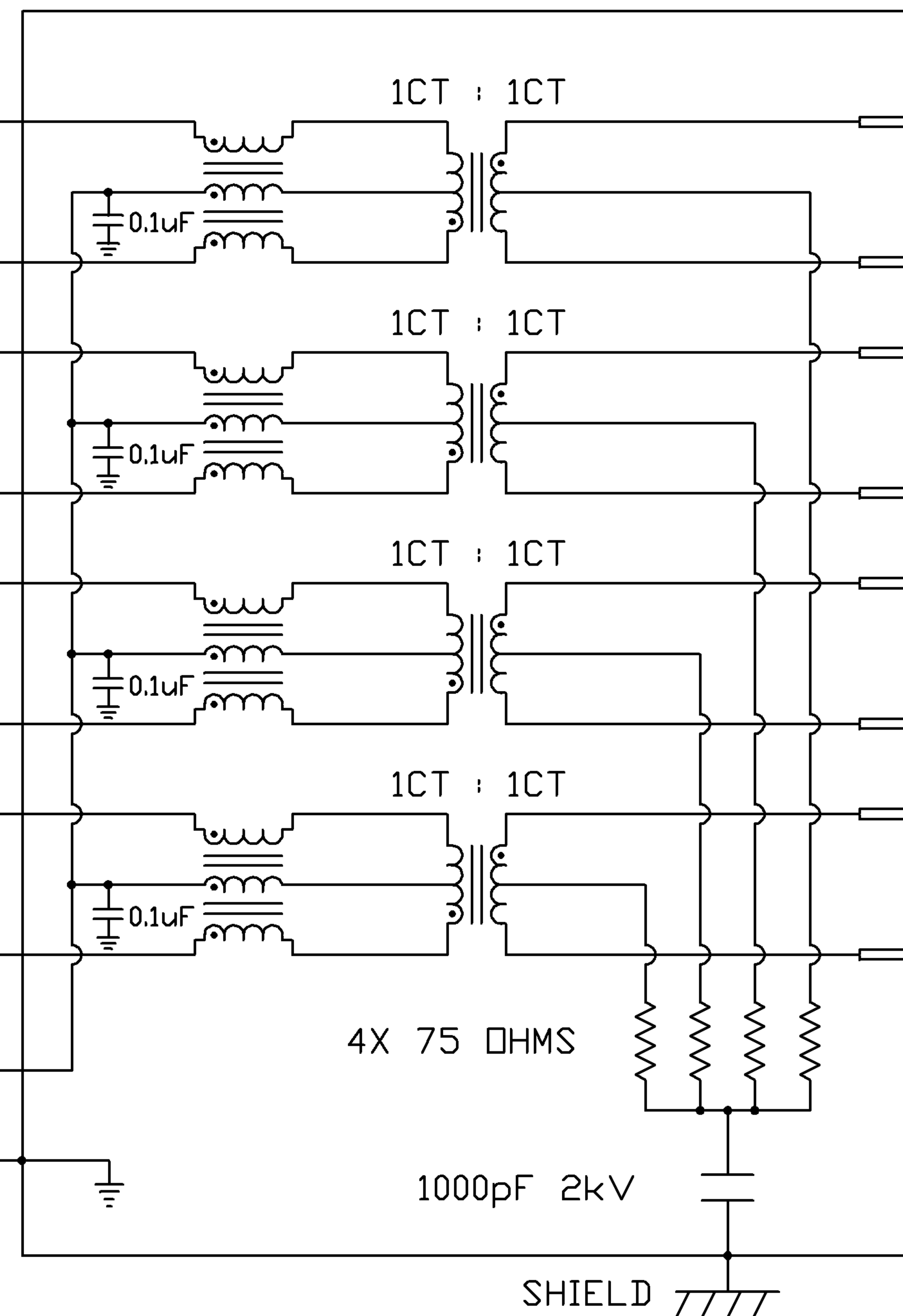
TRD3+ 6

TRD4- 7

TRD4+ 8

GND 10

LED 1 & 3



1 TRP1+

2 TRP1-

3 TRP2+

6 TRP2-

4 TRP3+

5 TRP3-

7 TRP4+

8 TRP4-

TRDCT1/2/3/4 9

ORIGINATED BY	DATE
CHOW WANCHUNG	11-28-08

TITLE  
2X4 gigabit MagJack®  
WITH UPPER AND LOWER LED  
(8 Cores)

PART NO. / DRAWING NO.
0879-2X4R-54

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

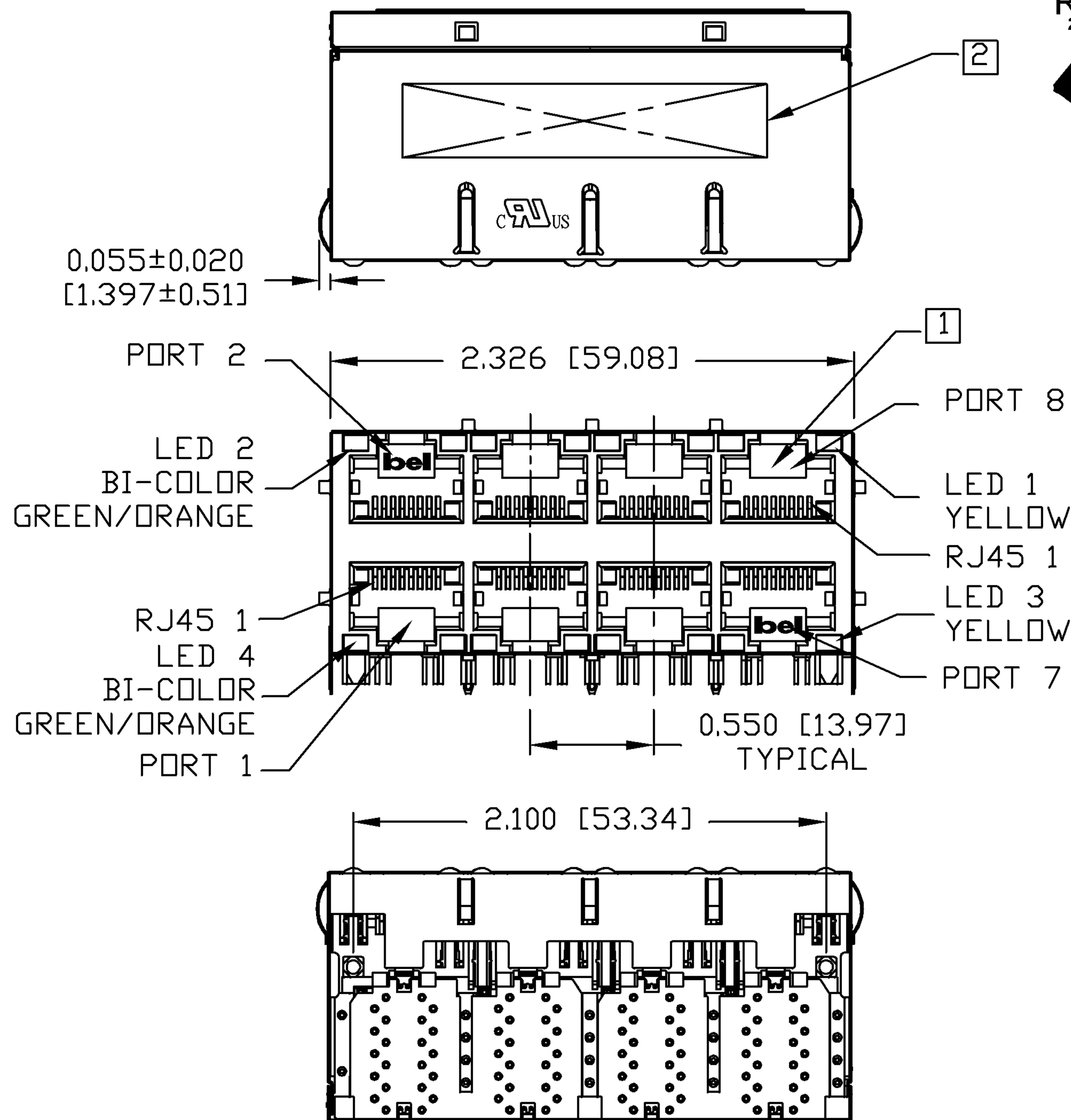
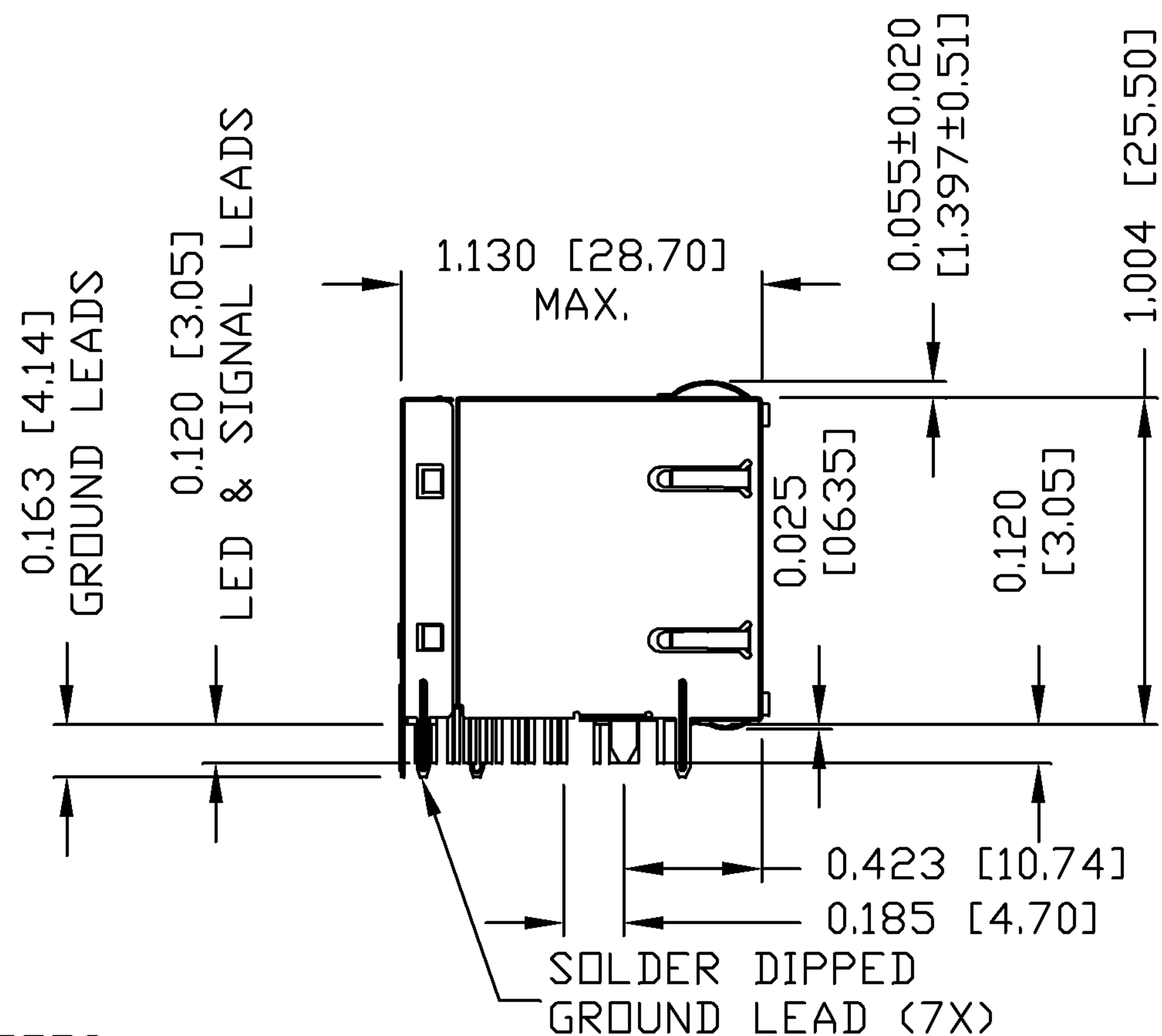
[ ] METRIC DIM. AS REFERENCE
UNIT : INCH [mm]
SCALE : N/A
REV. : PD
SIZE : A4
PAGE : 2



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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)

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.

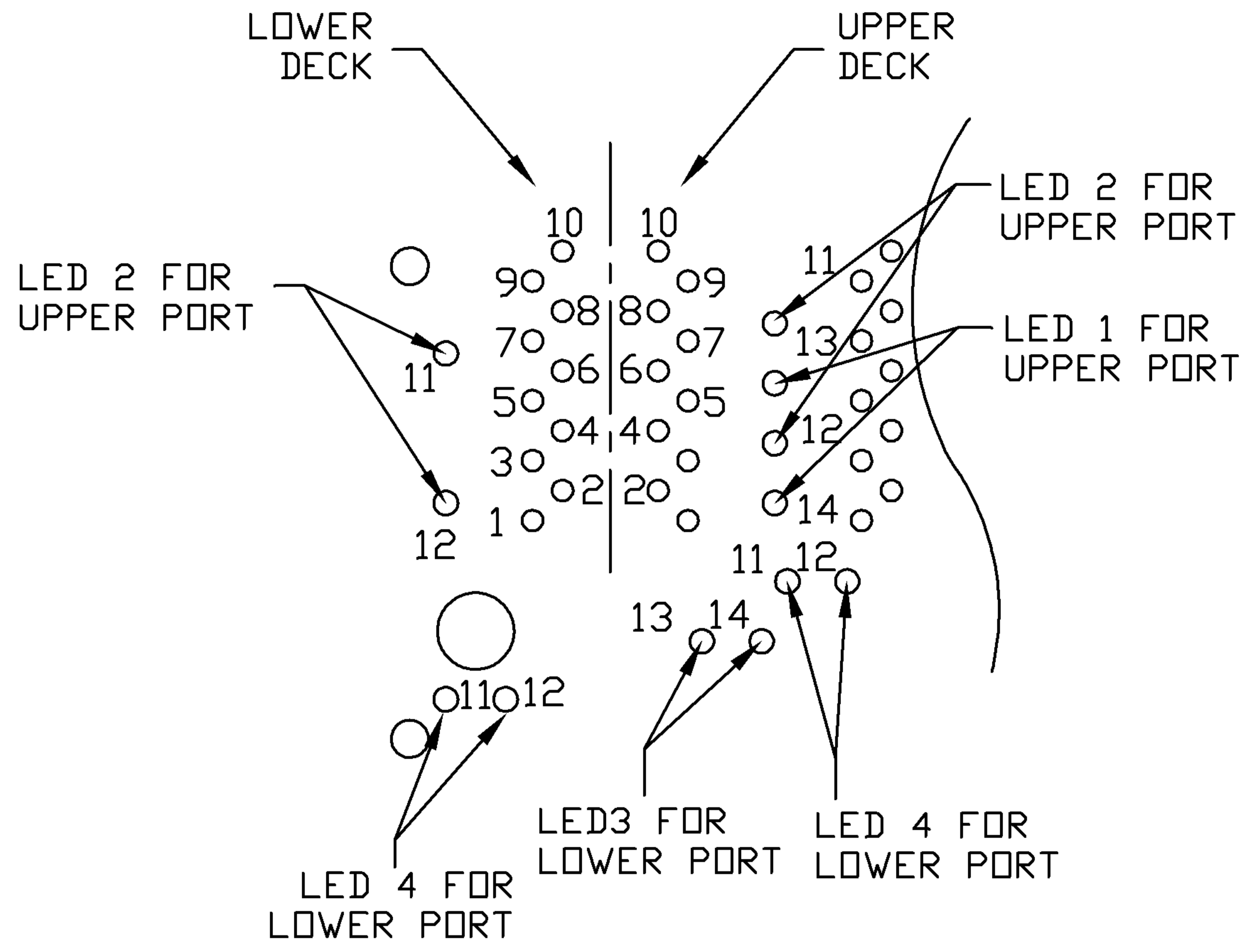
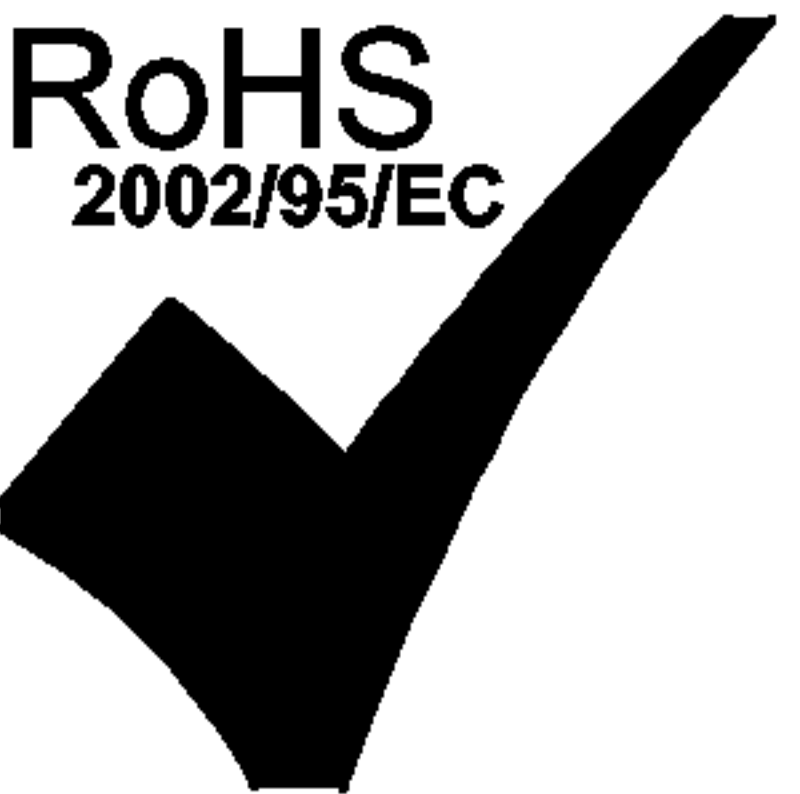
3. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

USUL RECOGNIZED - FILE #E196366 AND E169987.

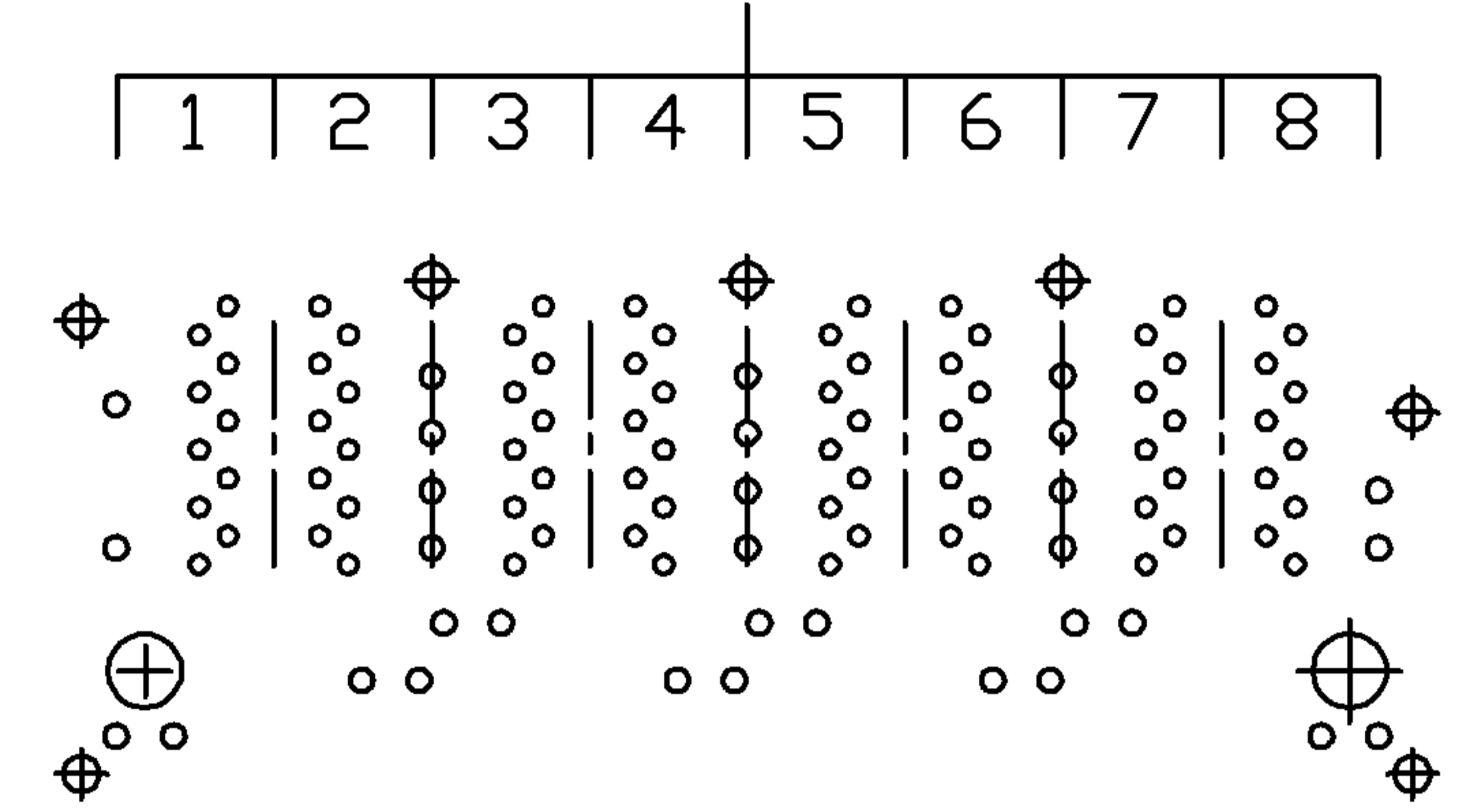
ORIGINATED BY ANTON LIAO	DATE 11-28-08	TITLE 2X4 gigabit MagJack® WITH UPPER AND LOWER LED (8 Cores)	PART NO. / DRAWING NO. 0879-2X4R-54	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY SANDY LIN	DATE 11-28-08		FILE NAME 0879-2X4R-54_PD.DWG	.X .XX .XXX	±0.010	UNIT : INCH [mm]	
					SCALE : N/A	SIZE : A4	
						PAGE : 3	

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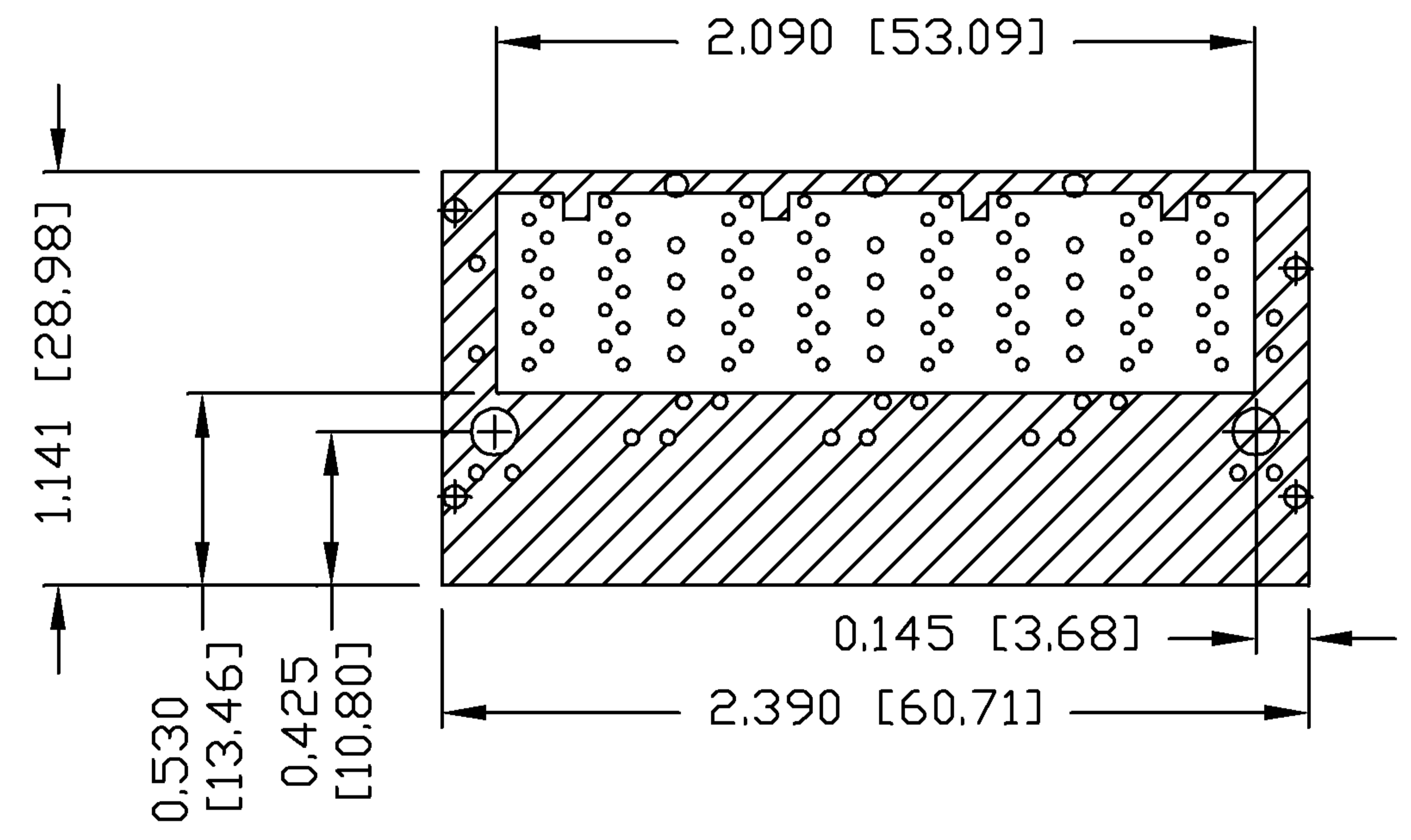


PORT ASSIGNMENT  
(COMPONENT SIDE VIEW)



PIN-OUT INFORMATION  
(COMPONENT SIDE VIEW)

10	GND	14	YELLOW (-)
9	TRDCT1/2/3/4	13	YELLOW (+)
8	TRD 4+	12	GRN (-)/DRG (+)
7	TRD 4-	11	GRN (+)/DRG (-)
6	TRD 3+		
5	TRD 3-		
4	TRD 2+		
3	TRD 2-		
2	TRD 1+		
1	TRD 1-		



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

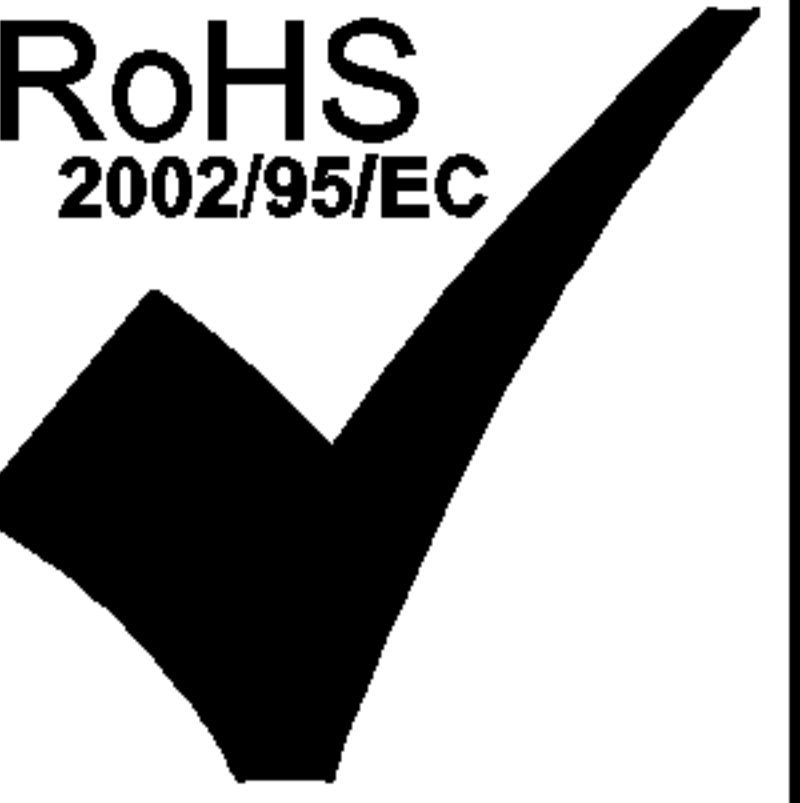
ORIGINATED BY ANTON LIAO	DATE 11-28-08	TITLE 2X4 gigabit MagJack® WITH UPPER AND LOWER LED (8 Cores)	PART NO. / DRAWING NO. 0879-2X4R-54	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE
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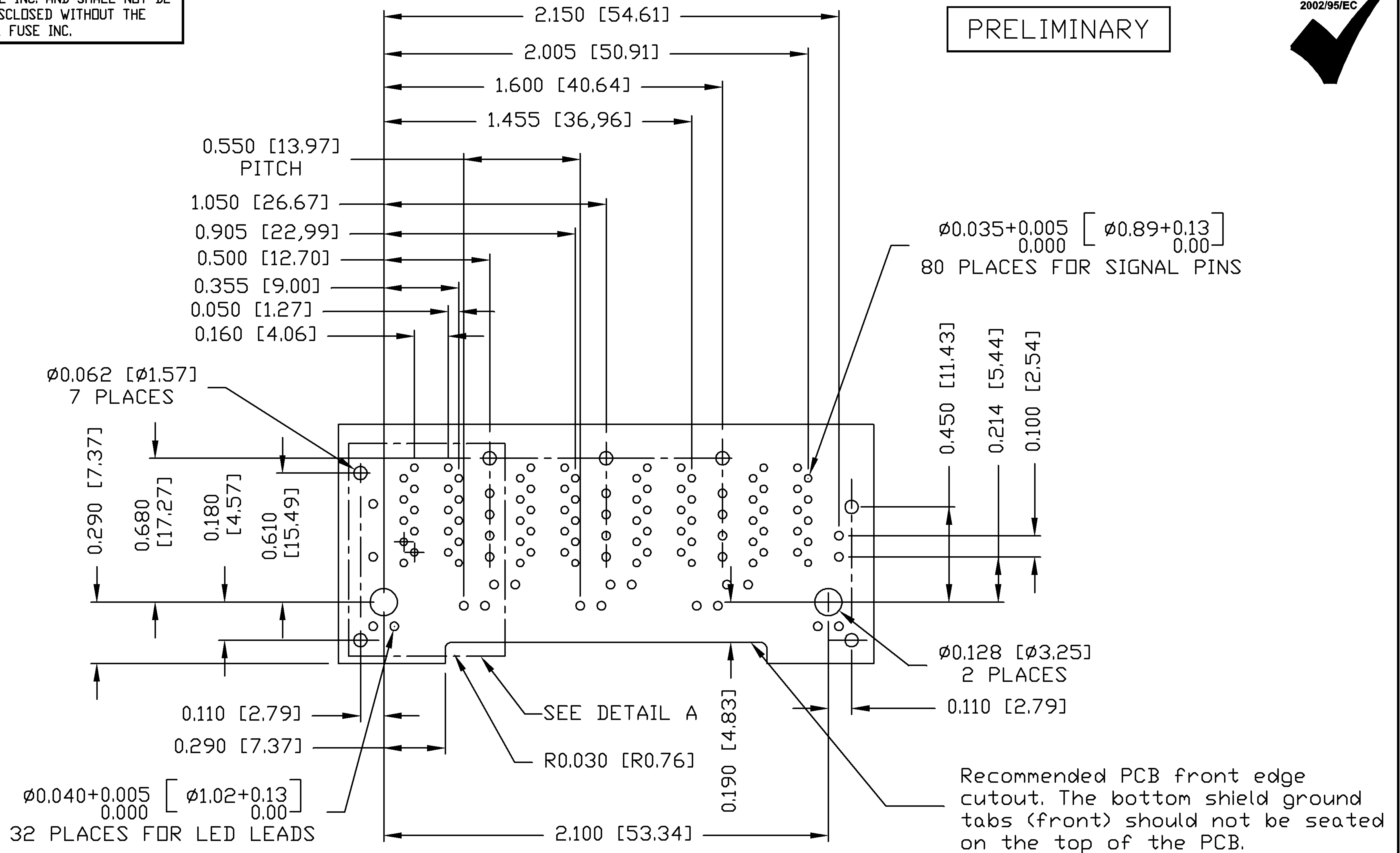


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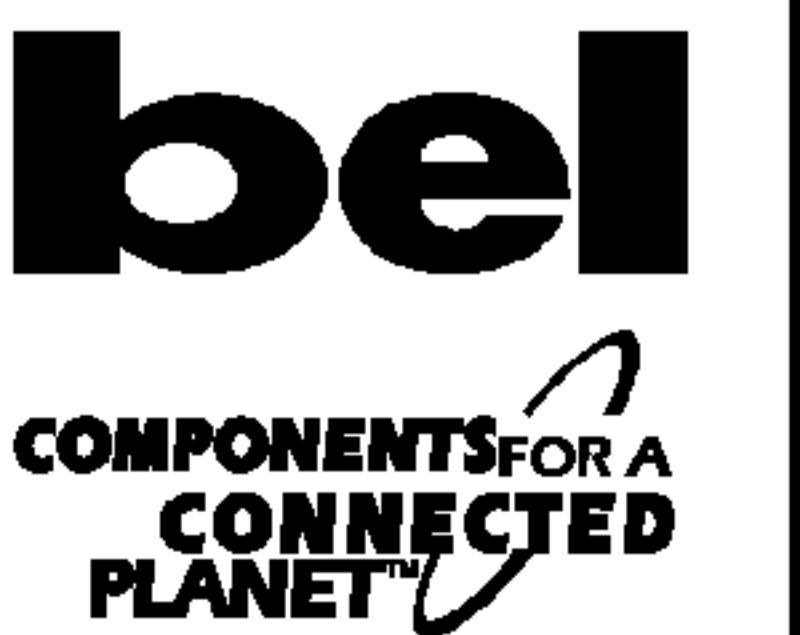
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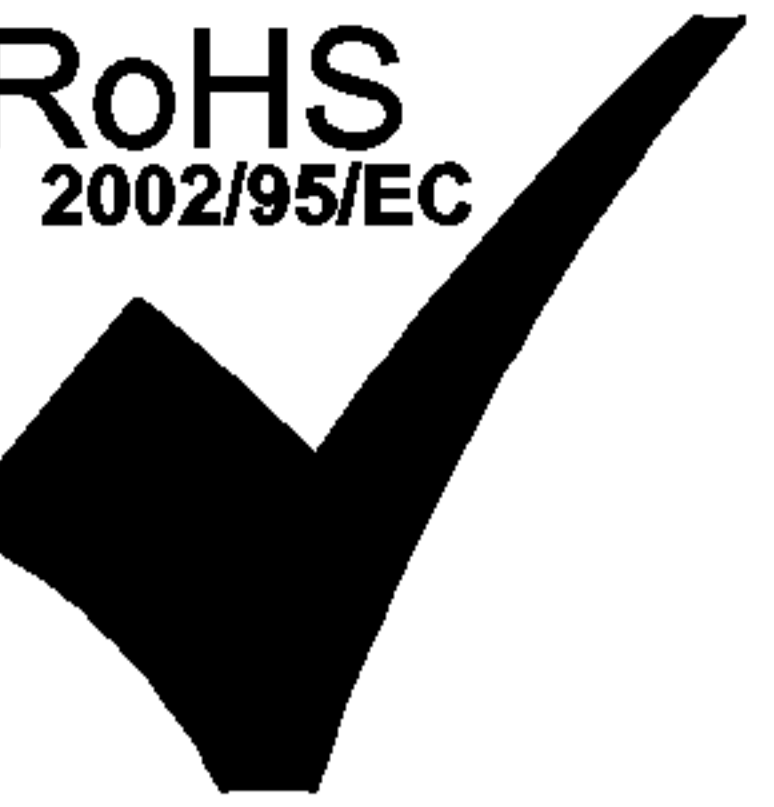


ORIGINATED BY ANTON LIAO	DATE 11-28-08	TITLE 2X4 gigabit MagJack® WITH UPPER AND LOWER LED (8 Cores)	PART NO. / DRAWING NO. 0879-2X4R-54	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE
DRAWN BY SANDY LIN	DATE 11-28-08		FILE NAME 0879-2X4R-54_PD.DWG	.X .XX .XXX ±0.004	UNIT : INCH [mm] REV. : PD SCALE : N/A SIZE : A4 PAGE : 5

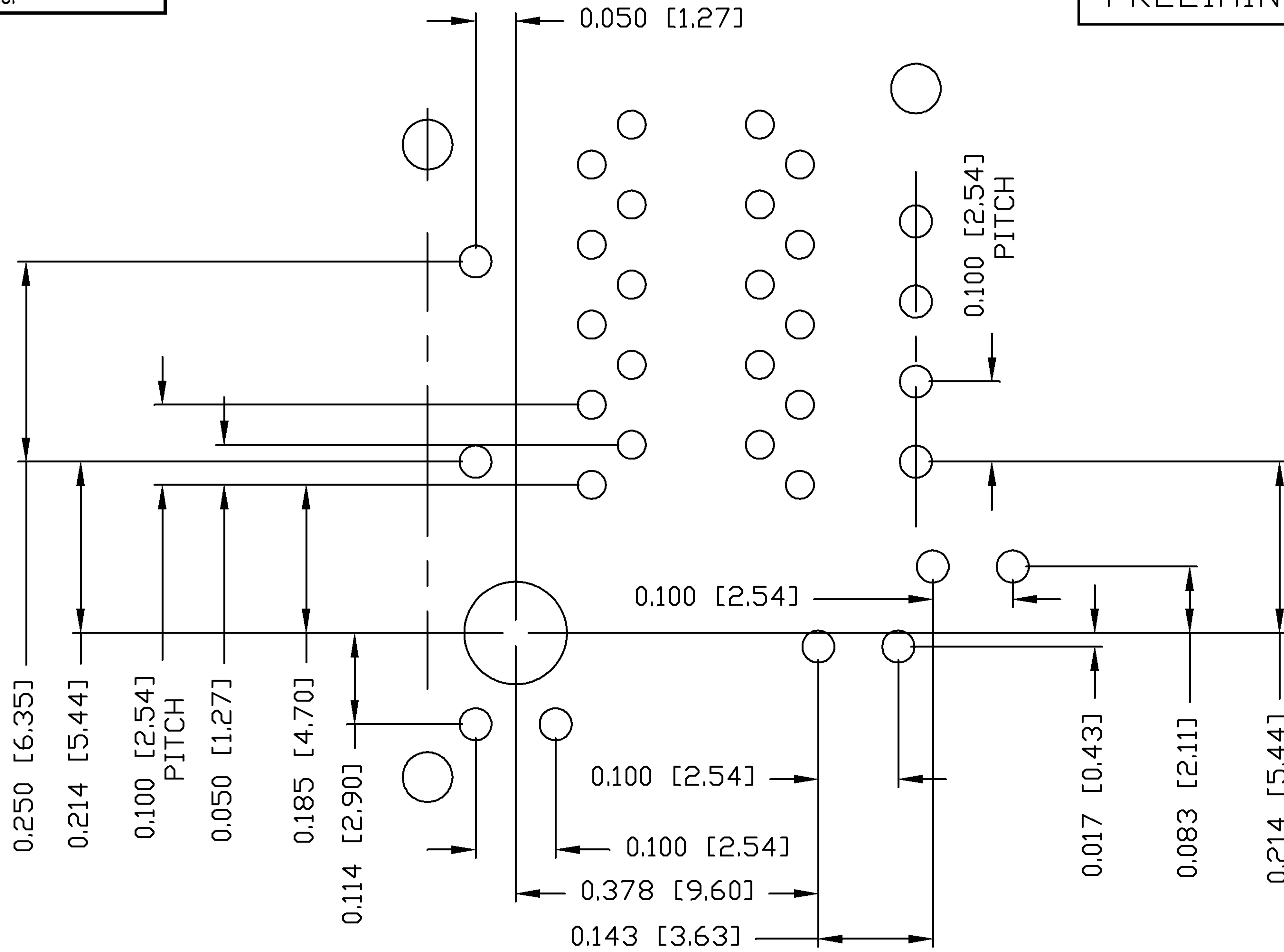


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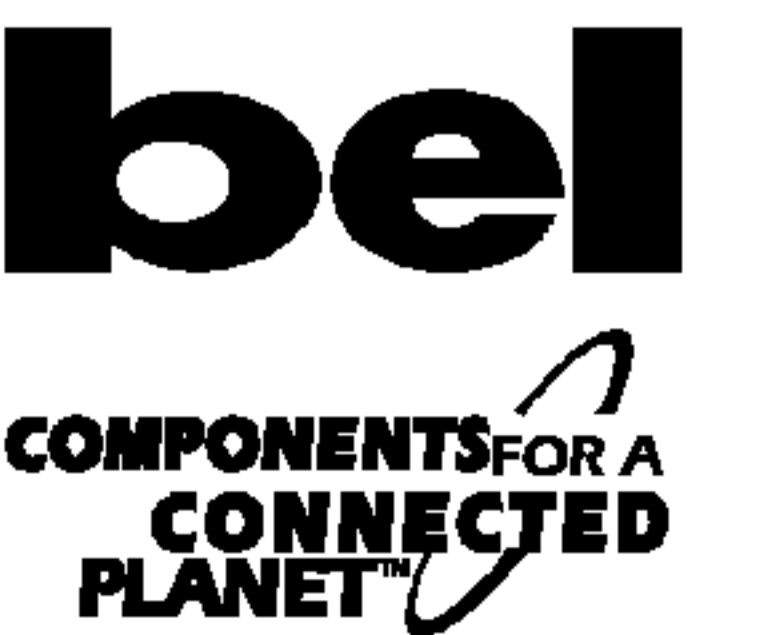


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DETAIL A

ORIGINATED BY ANTON LIAO	DATE 11-28-08	TITLE 2X4 gigabit MagJack® WIHT UPPER AND LOWER LED (8 Cores)	PART NO. / DRAWING NO. 0879-2X4R-54	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	
DRAWN BY SANDY LIN	DATE 11-28-08		FILE NAME 0879-2X4R-54_PD.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A	REV. : PD SIZE : A4 PAGE : 6
				±0.004		

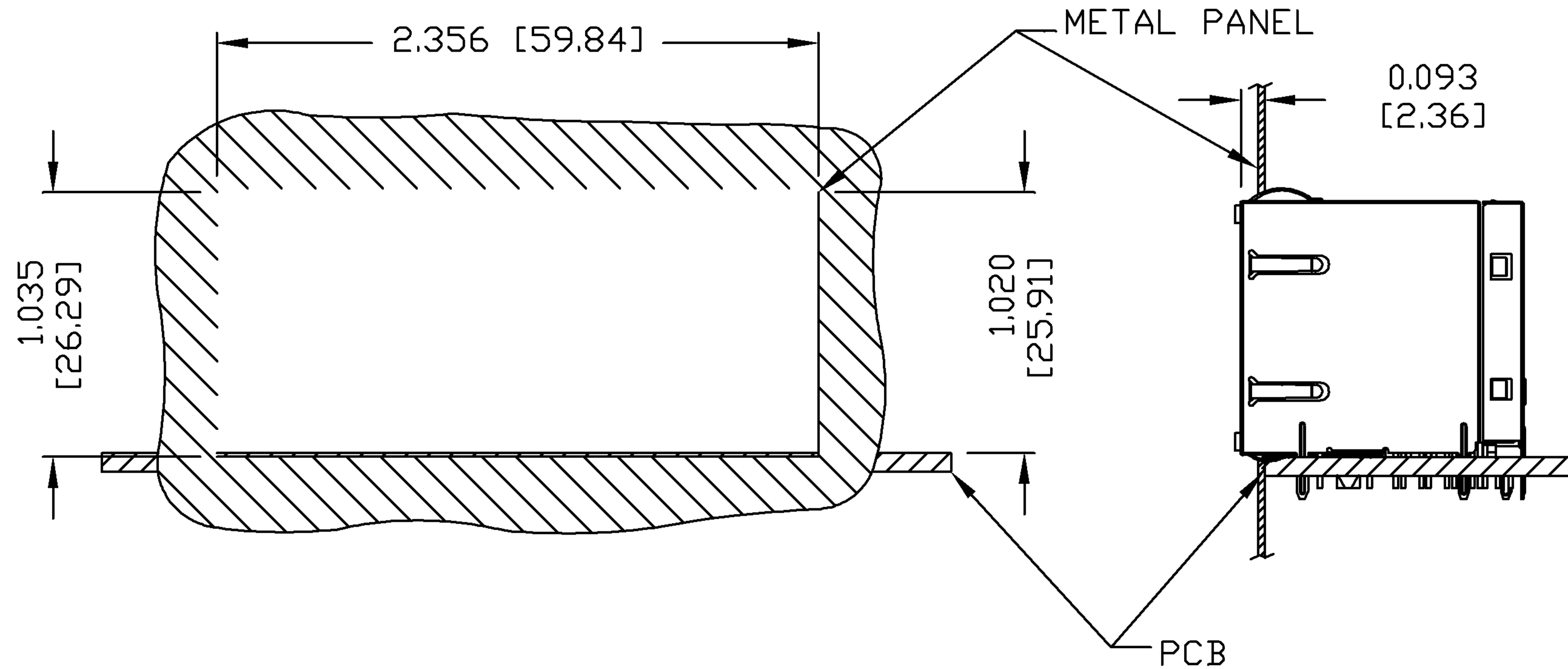


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PRELIMINARY



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-Q1 (TOP)  
0200-9999-Q2 (BOTTOM)

PACKING QUANTITY : 20 PCS FINISHED GOODS PER TRAY  
7 TRAYS (140 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. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE
ANTON LIAO	11-28-08	2X4 gigabit MagJack® WITH UPPER AND LOWER LED (8 Cores)	0879-2X4R-54	.X	UNIT : INCH [mm] REV. : PD
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
SANDY LIN	11-28-08		0879-2X4R-54_PD.DWG	.XXX ±0.004	⊕ --- PAGE : 7

