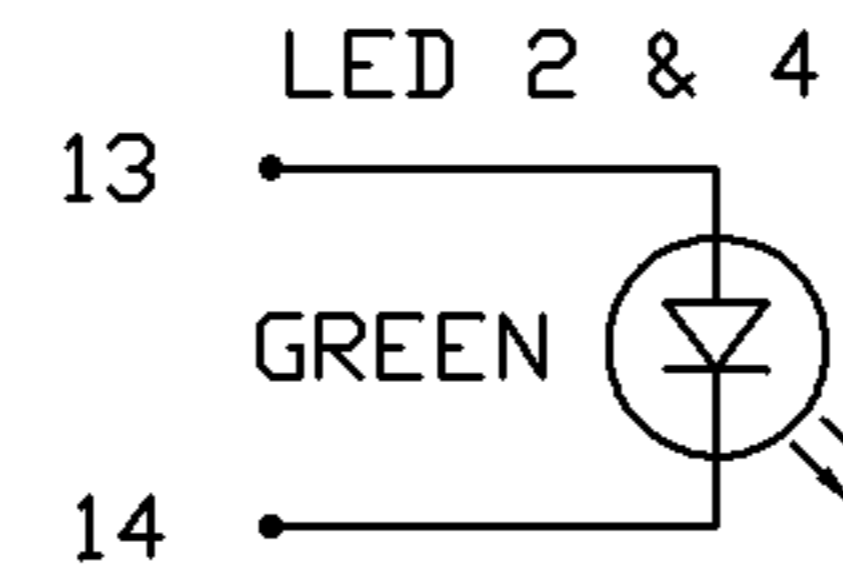


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LED 2 & 4 POLARITY			LED 1 & 3 POLARITY		
PIN 13	PIN 14	COLOR	PIN 15	PIN 16	COLOR
+	-	GREEN	+	-	YELLOW



PRELIMINARY



ELECTRICAL CHARACTERISTICS @ 25°C

TURNS 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) @ 100ΩHMS ±15%

0.5MHz-40MHz	-18 dB
40MHz-100MHz	-12+20LOG(f/80MHz) dB

CM TO CM REJ

100kHz - 100MHz -30 dB MIN

CM TO DM REJ

100kHz - 100MHz -35 dB MIN

HIPOT (Isolation Voltage): 2250 VDC

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

BALANCED DC LINE CURRENT 350 mA MAX.
@ 57 VDC CONTINUOUS
500 mA MAX.
@ 57 VDC for 200 MILLISECONDS

LED 2 & 4

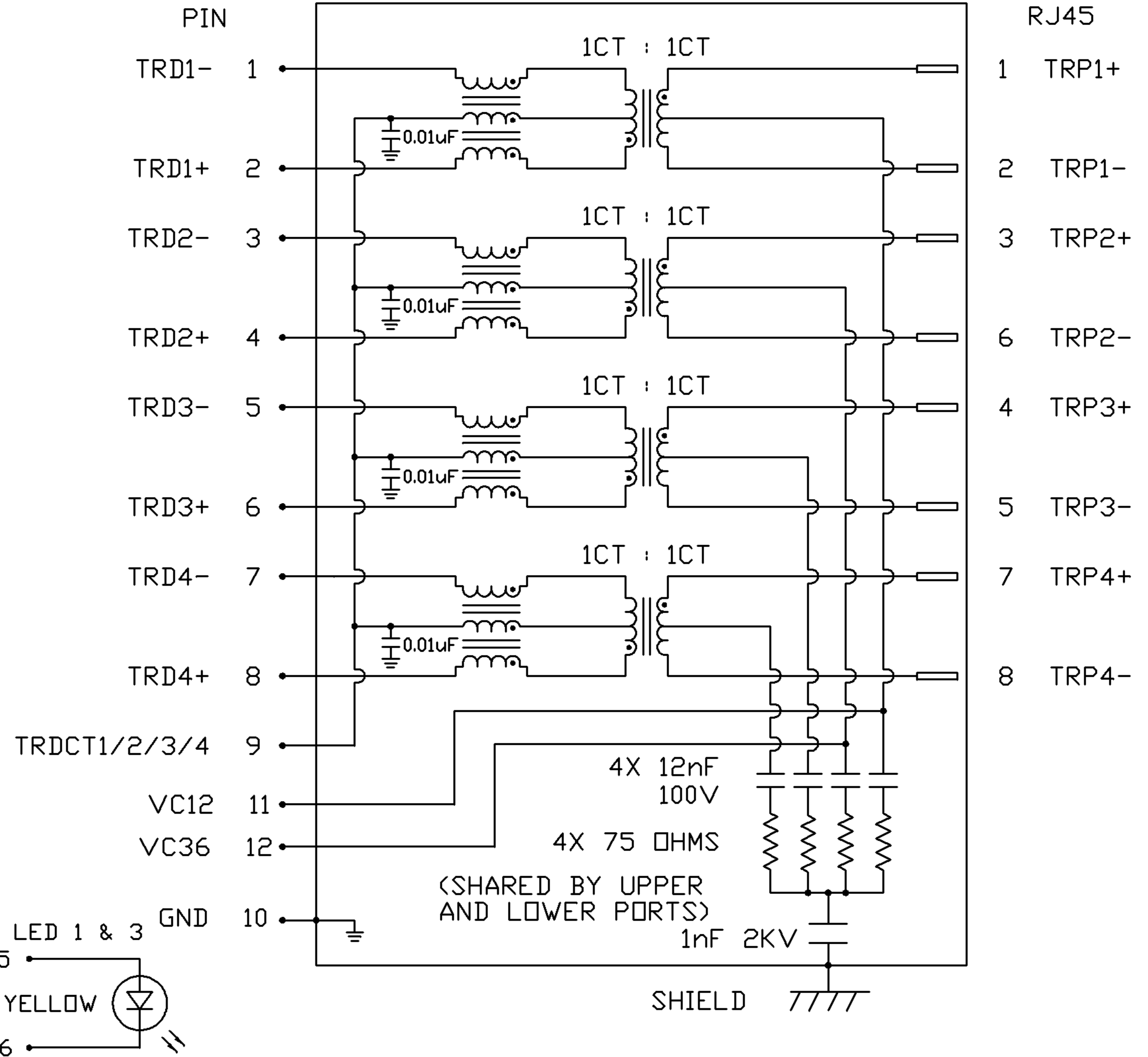
VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.

LED 1 & 3

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

OPERATING TEMPERATURE: -40 TO +85°C

SCHEMATIC



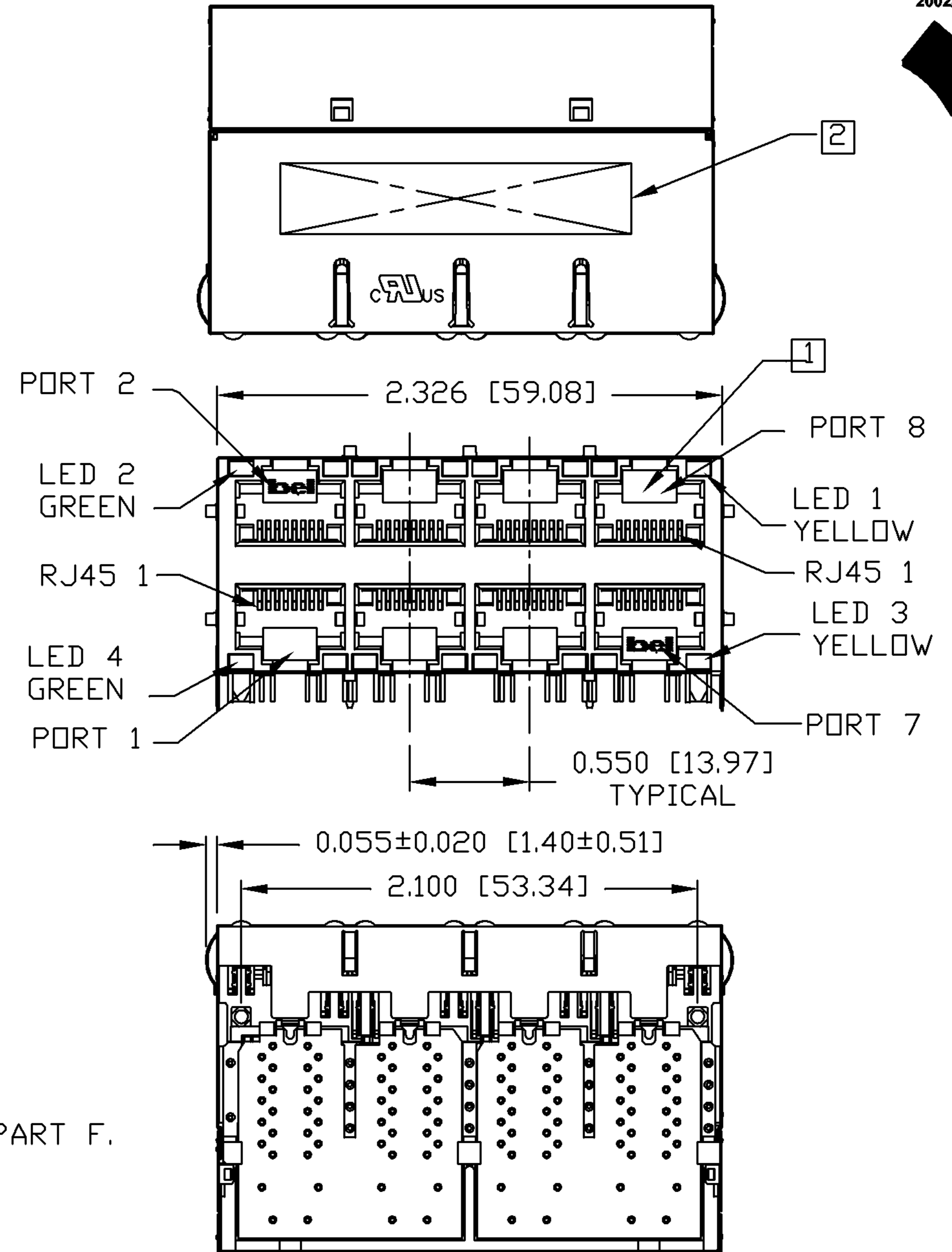
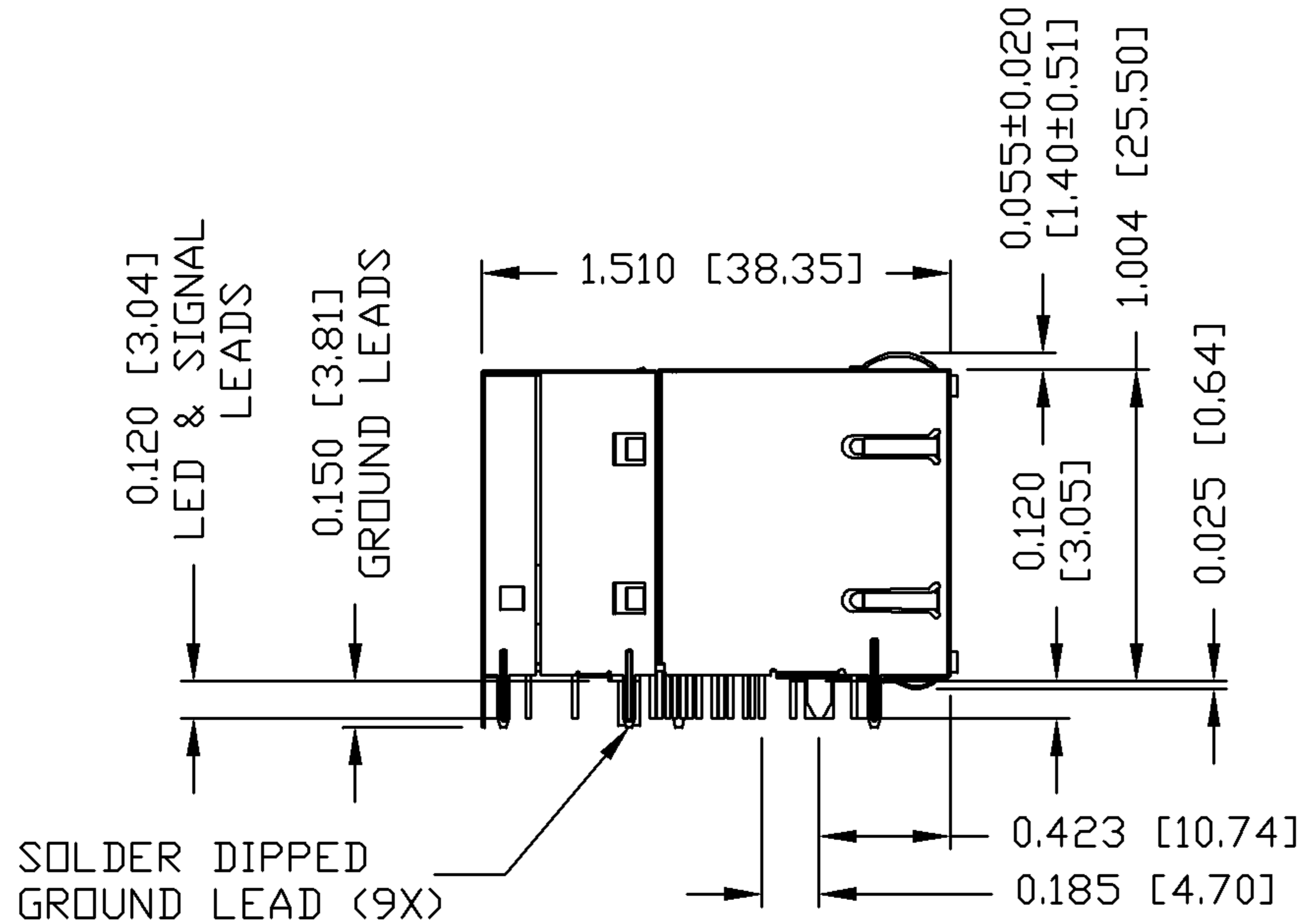
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
CHOW WANCHUNG	12-09-08	2X4 gigabit MagJack®	0895-2A4R-FA	.X	UNIT : INCH [mm] REV. : PC
DRAWN BY	DATE	VOIP WITH EXTENDED TEMPERATURE	FILE NAME	.XX	SCALE : N/A SIZE : A4
WEIDE LEE	12-09-08		0895-2A4R-FA_PC.DWG	.XXX	PAGE : 2



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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 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.

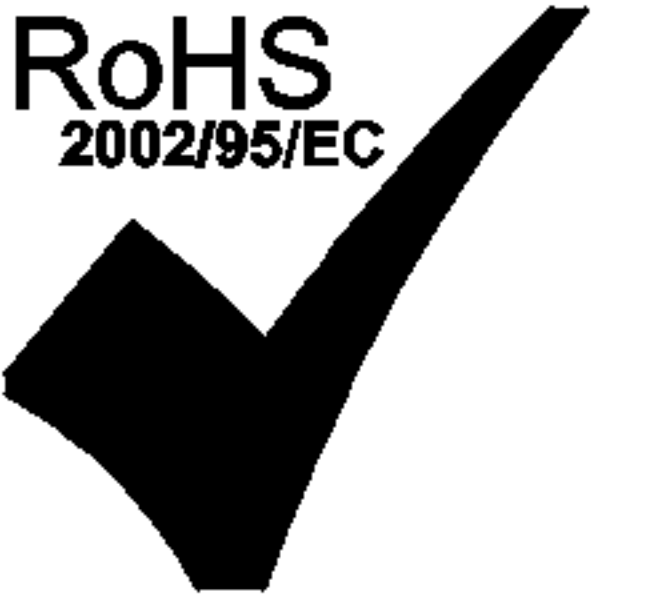
c USUL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
ANTON LIAO	12-09-08	2X4 gigabit MagJack®	0895-2A4R-FA	.X	UNIT : INCH [mm] REV. : PC
DRAWN BY	DATE	VOIP WITH EXTENDED TEMPERATURE	FILE NAME	.XX	SCALE : N/A SIZE : A4
HOWFAR WEI	12-09-08		0895-2A4R-FA_PC.DWG	.XXX ±0.010	PAGE : 3



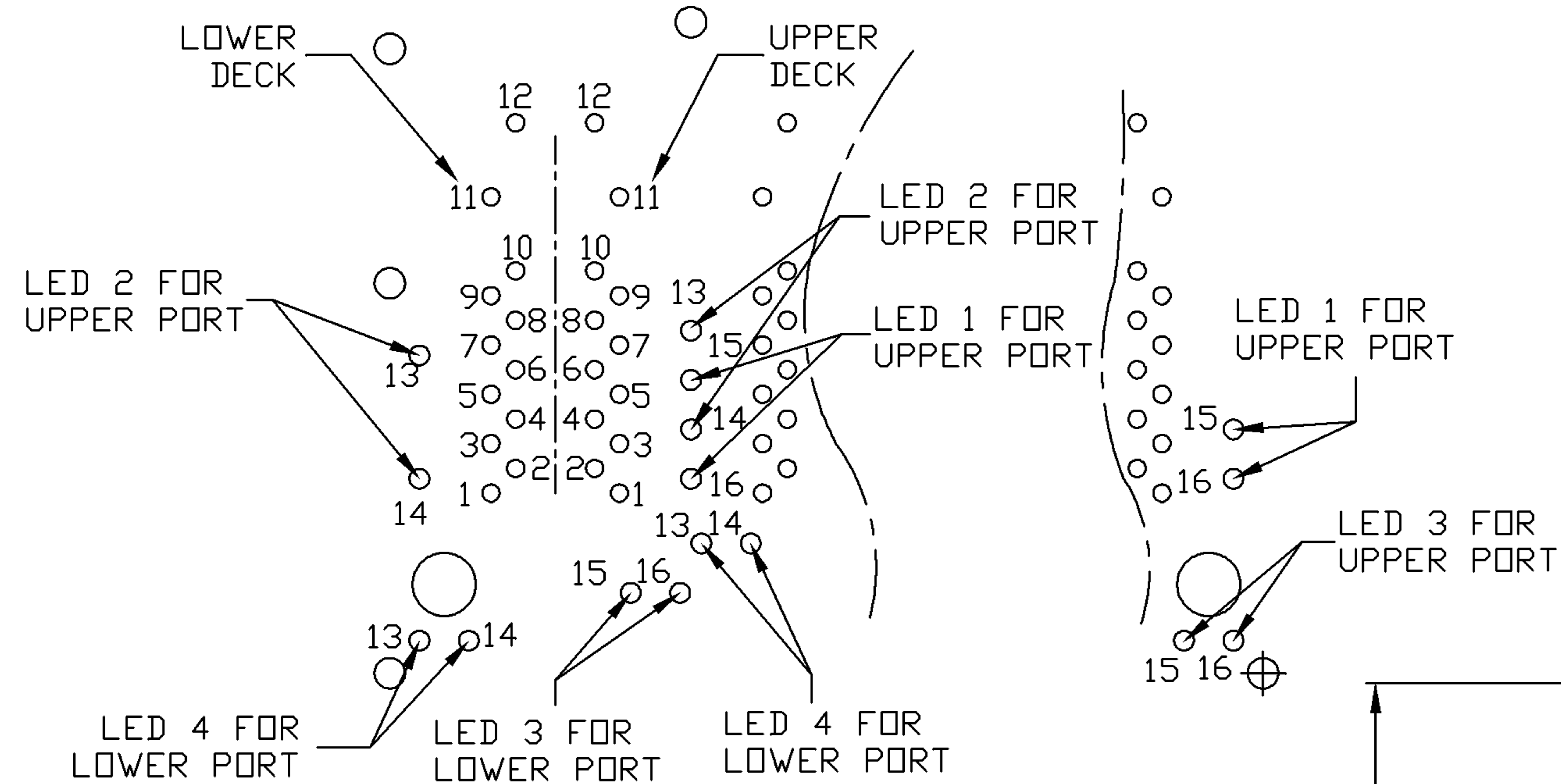
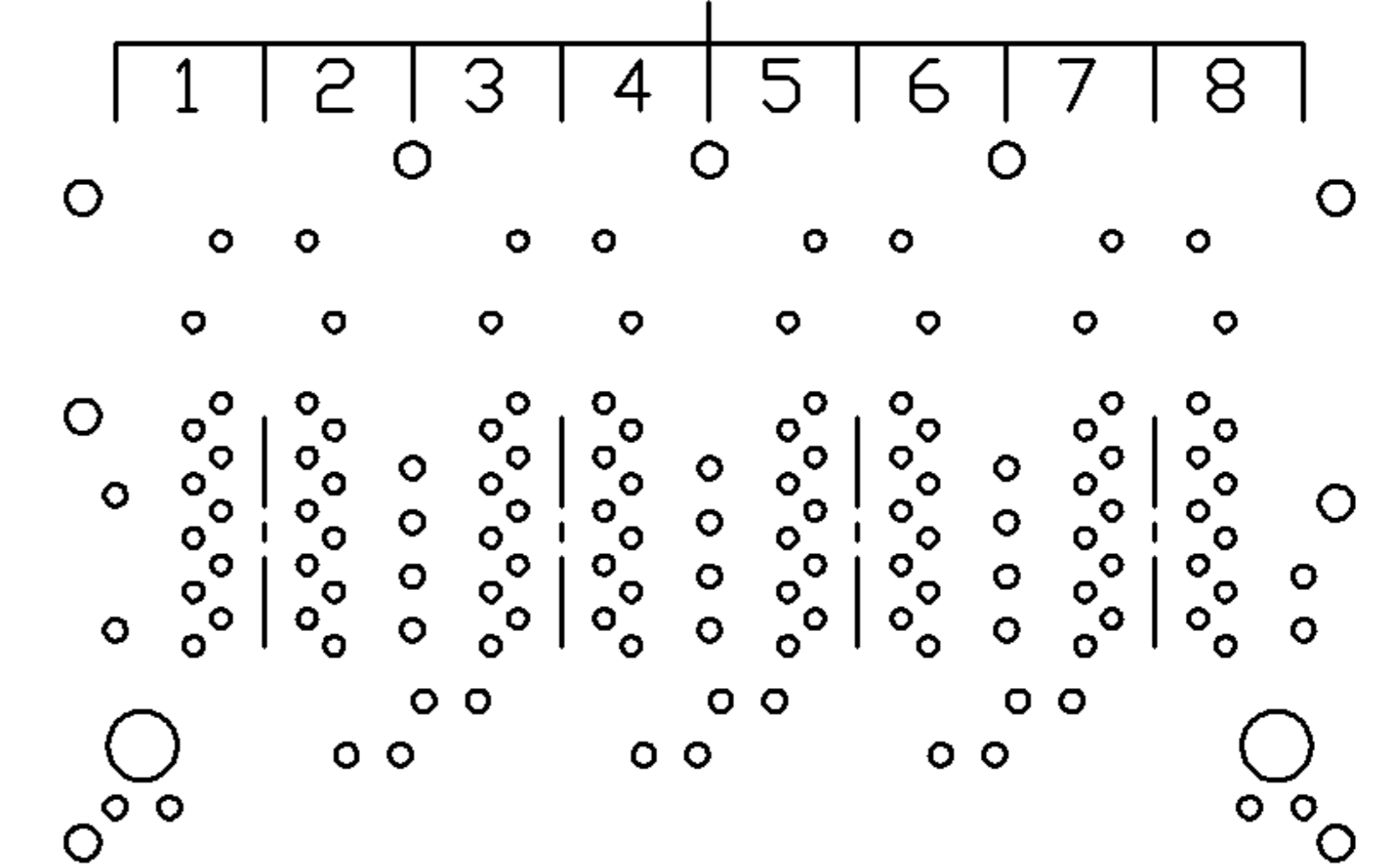
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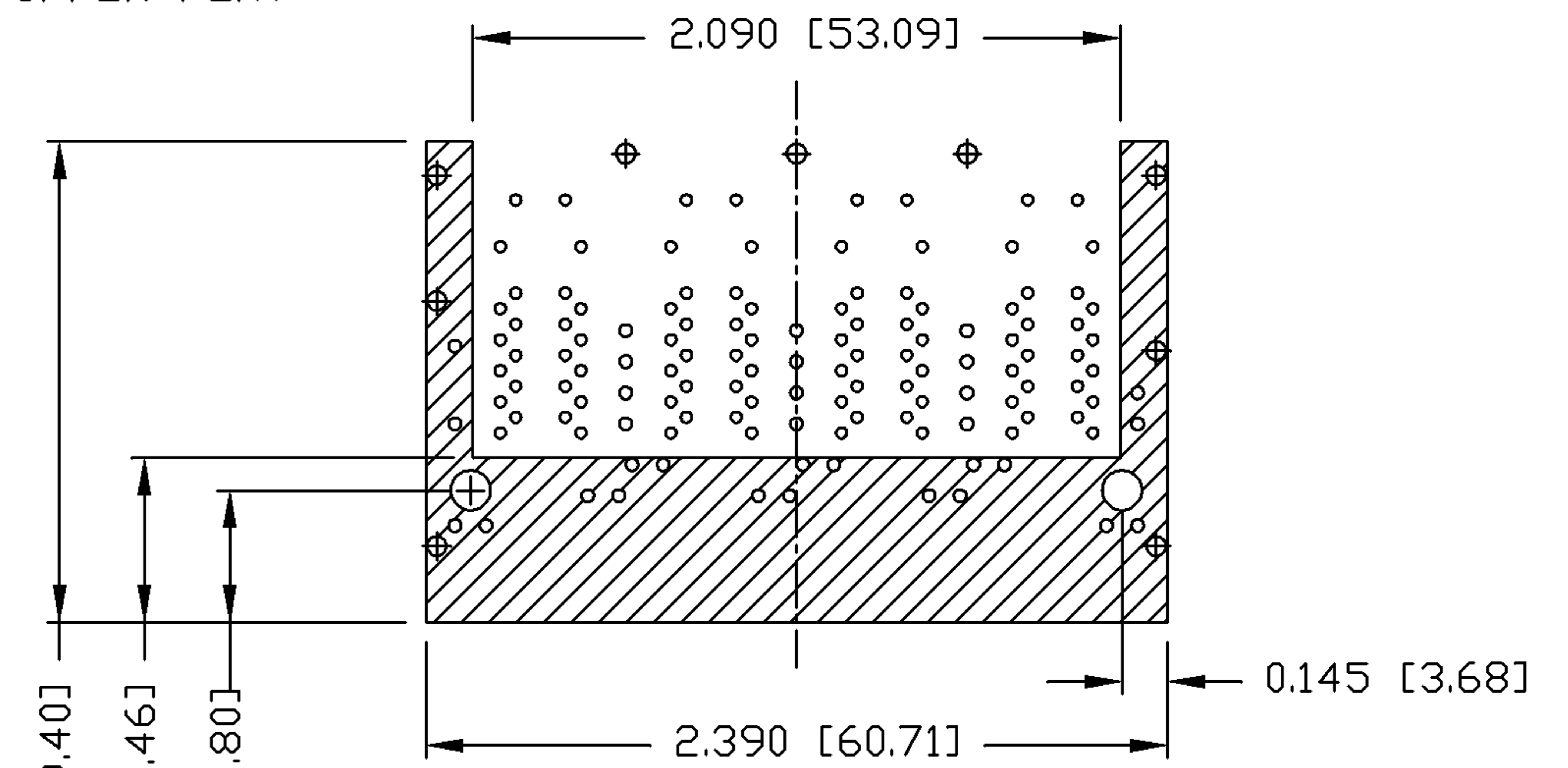
PRELIMINARY

PORT ASSIGNMENT
(COMPONENT SIDE VIEW)



PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

10	GND		
9	TRDCT1/2/3/4		
8	TRD 4+		
7	TRD 4-		
6	TRD 3+	16	YELLOW -
5	TRD 3-	15	YELLOW +
4	TRD 2+	14	GREEN -
3	TRD 2-	13	GREEN +
2	TRD 1+	12	VC36
1	TRD 1-	11	VC12



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

ORIGINATED BY ANTON LIAO	DATE 12-09-08	TITLE 2X4 gigabit MagJack®	PART NO. / DRAWING NO. 0895-2A4R-FA	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
DRAWN BY HOWFAR WEI	DATE 12-09-08	VOIP WITH EXTENDED TEMPERATURE	FILE NAME 0895-2A4R-FA_PC.DWG	.X .XX .XXX ±0.004	UNIT : INCH [mm] REV. : PC SCALE : N/A SIZE : A4 PAGE : 4

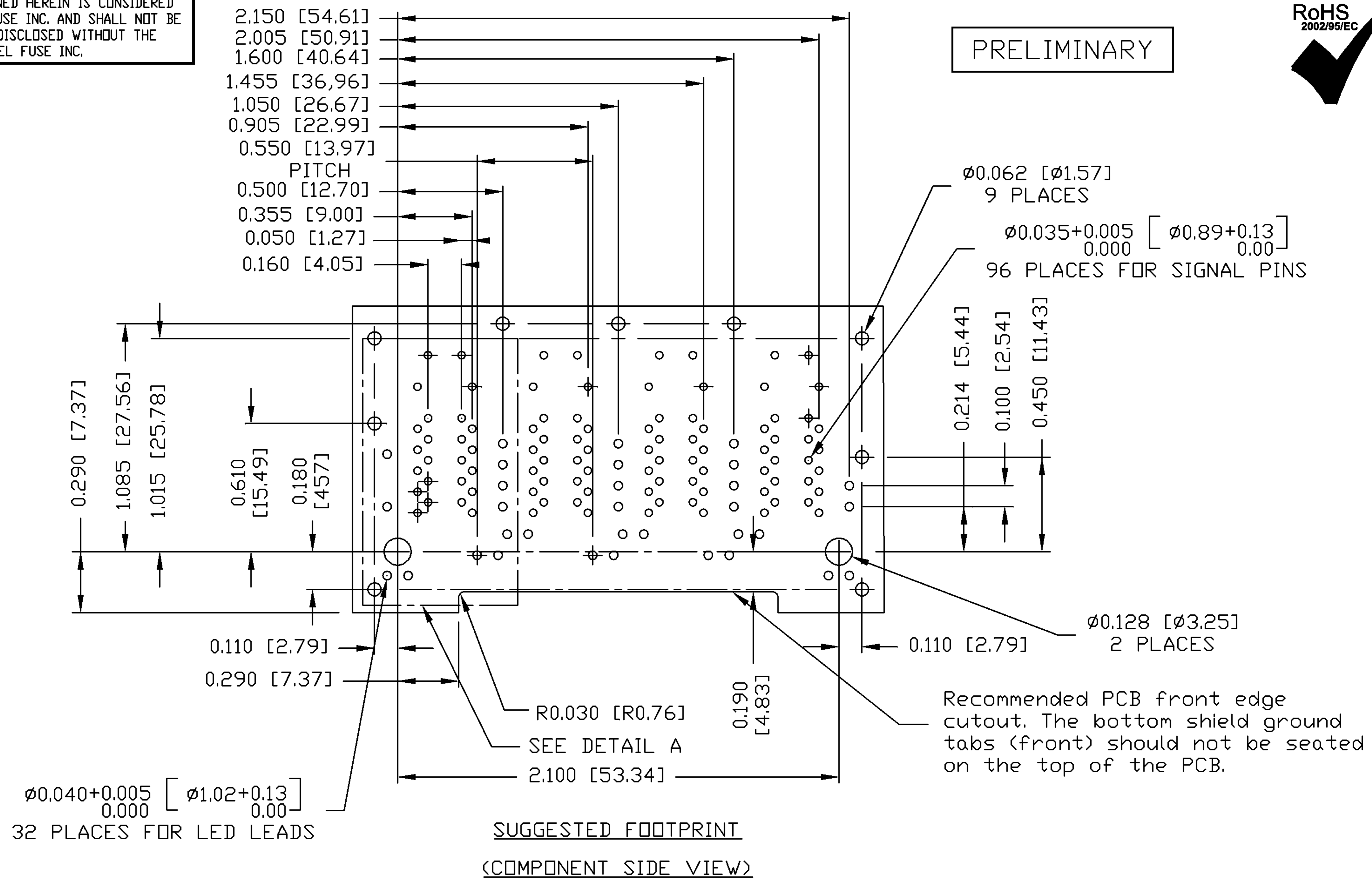


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RoHS
2002/95/EC



PRELIMINARY



ORIGINATED BY	DATE
ANTON LIAO	12-09-08
DRAWN BY	DATE
HOWFAR WEI	12-09-08

TITLE
2X4 gigabit MagJack®
VOIP WITH EXTENDED TEMPERATURE

PART NO. / DRAWING NO.
0895-2A4R-FA
FILE NAME
0895-2A4R-FA_PC.DWG

STANDARD DIM. TOL. IN INCH
.X
.XX
.XXX
±0.004

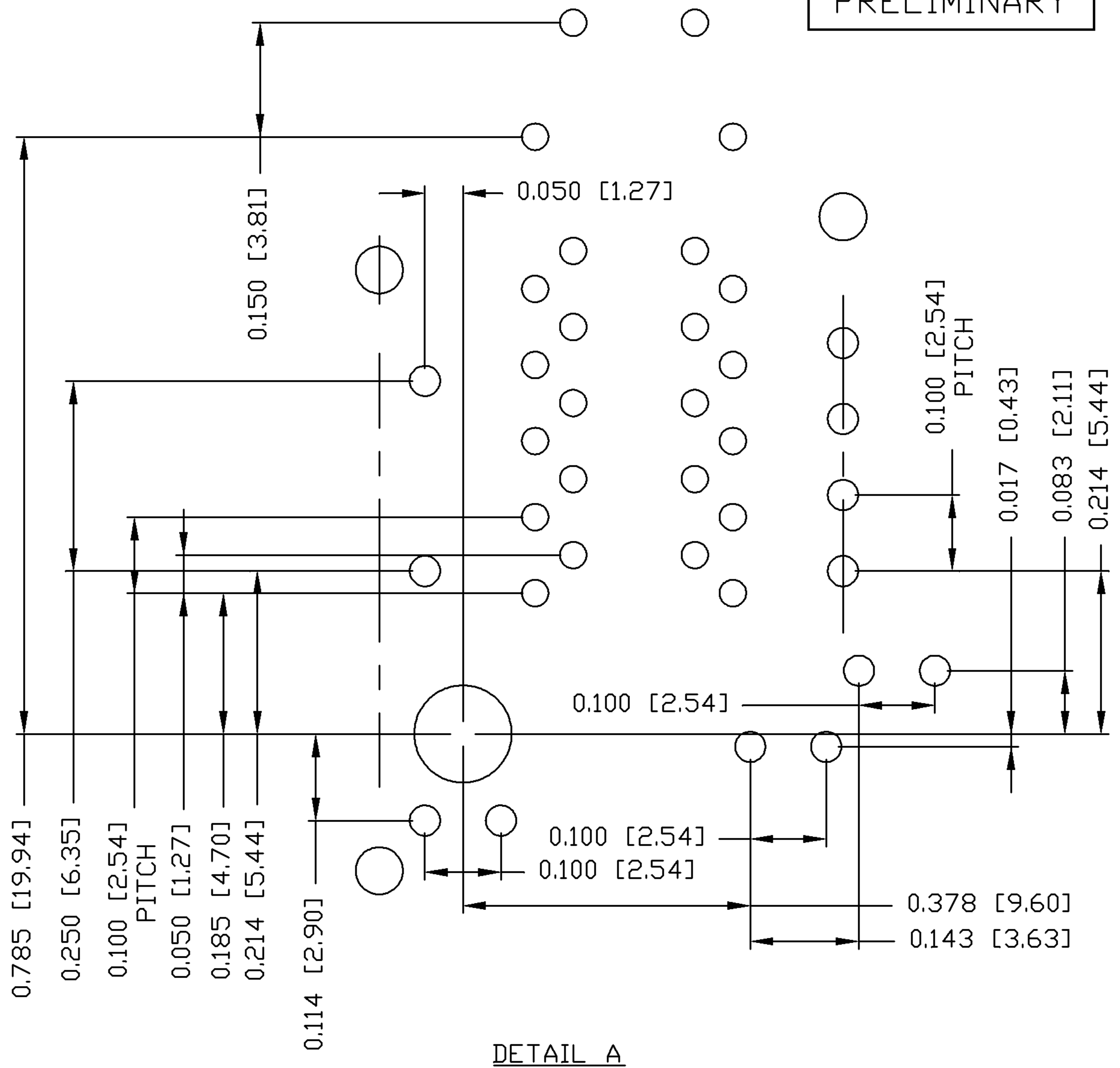
[] METRIC DIM. AS REFERENCE
UNIT : INCH [mm]
SCALE : N/A
REV. : PC
SIZE : A4
PAGE : 5



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PRELIMINARY

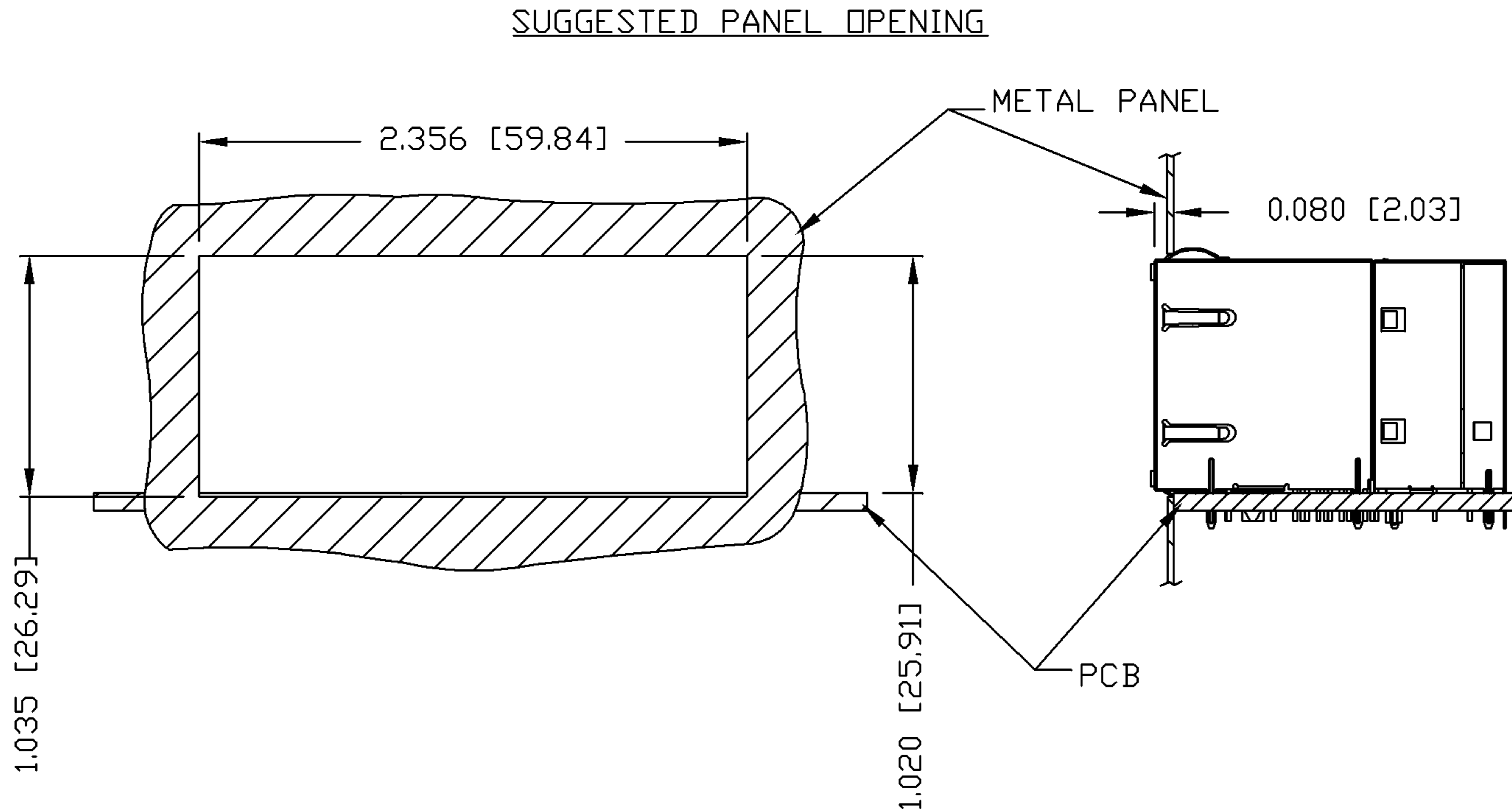


DETAIL A

ORIGINATED BY ANTON LIAO	DATE 12-09-08	TITLE 2X4 gigabit MagJack® VOIP WITH EXTENDED TEMPERATURE	PART NO. / DRAWING NO. 0895-2A4R-FA	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	bel COMPONENTS FOR A CONNECTED PLANET
DRAWN BY HOWFAR WEI	DATE 12-09-08		FILE NAME 0895-2A4R-FA_PC.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A	

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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-G2 (TOP)
0200-9999-G3 (BOTTOM)

PACKING QUANTITY : 20 PCS FINISHED GOODS PER TRAY
5 TRAYS (100 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 ANTON LIAO	DATE 12-09-08	TITLE 2X4 gigabit MagJack®	PART NO. / DRAWING NO. 0895-2A4R-FA	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
DRAWN BY HOWFAR WEI	DATE 12-09-08	TITLE VOIP WITH EXTENDED TEMPERATURE	FILE NAME 0895-2A4R-FA_PC.DWG	.X	UNIT : INCH [mm]	REV. : PC
				.XX	SCALE : N/A	SIZE : A4
				.XXX ±0.004		PAGE : 7

