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PRELIMINARY

RoHS



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TP1	1CT : 1CT
TP2	1CT : 1CT
TP3	1CT : 1CT
TP4	1CT : 1CT

INS. LOSS (MAX)

1MHz TO 20MHz	-0.8 dB
50MHz	-1.0 dB
200MHz	-1.2 dB
400MHz	-2.0 dB
500MHz	-3.0 dB

RET. LOSS (MIN) @ 100 OHMS

1MHz $\leq f \leq 40\text{MHz}$	16 dB MIN
40MHz <math>< f \leq 400\text{MHz}</math>	16-10LOG(f/40MHz) dB
400MHz <math>< f \leq 500\text{MHz}</math>	6-30LOG(f/400MHz) dB

CM TO CM REJ

1MHz - 500MHz	-25 dB MIN
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CM TO DM REJ

1MHz - 500MHz	-25 dB MIN
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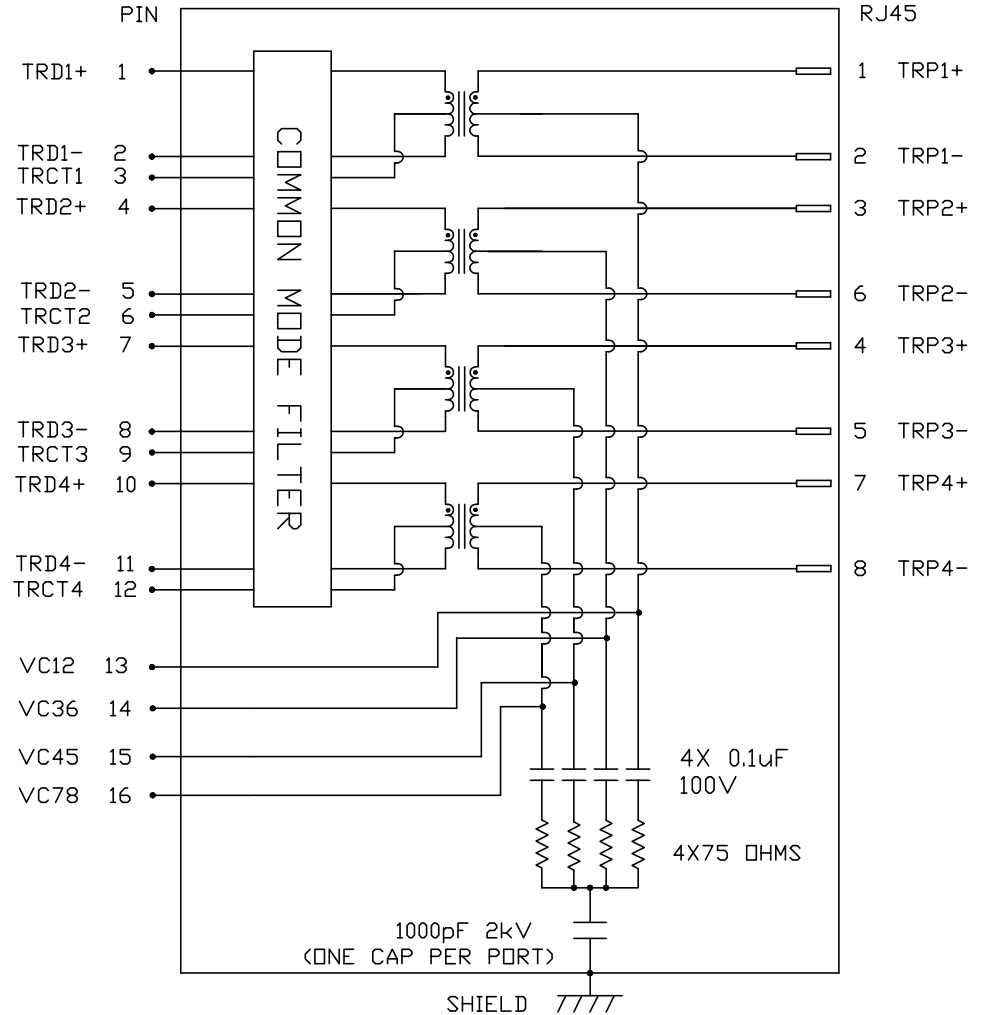
HIPOT (Isolation Voltage): 2250VDC

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

BALANCED DC LINE CURRENT 600mA MAX. CONTINUOUS.
1.2A MAX. FOR 200 MILLISECONDS.

OPERATING TEMPERATURE: -40°C TO +85°C.

SCHEMATIC



REV. : 1 PAGE : 2

ORIGINATED BY
BILL LIU
DATE 2024-07-18

DRAWN BY
TERRY LIN
DATE 2024-07-18

TITLE
2X8 10 Gigabit MagJack®
4PPoE, 60W
PATENTED

PART NO. / DRAWING NO.
G28-D8NV-011K

FILE NAME
G28-D8NV-011K_1.DWG

STANDARD DIM.
TOL. IN INCH

[] METRIC DIM.
AS REF.

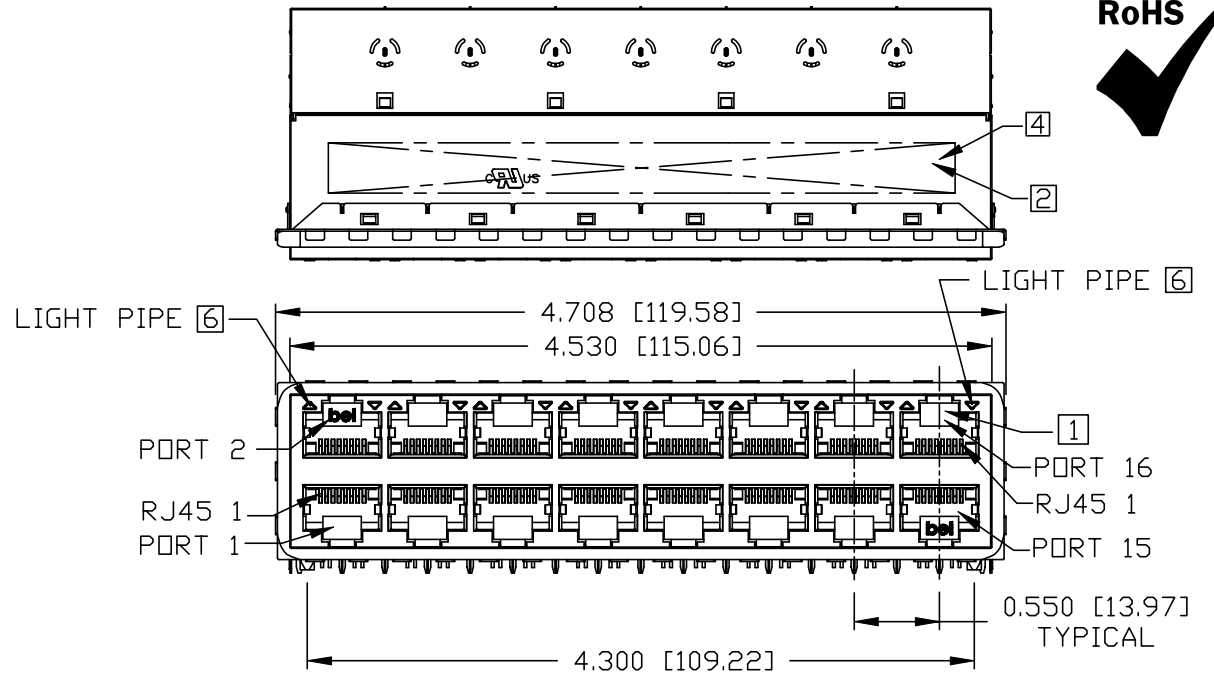
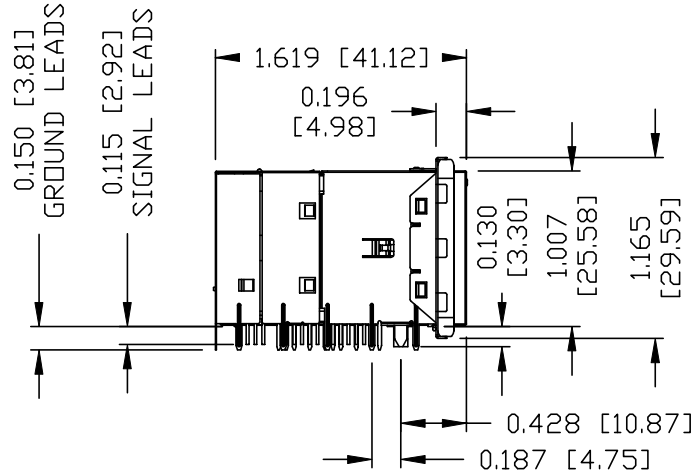
.X UNIT : INCH [mm]
.XX SCALE : N/A
.XXX SIZE : A4



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NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PBT, BLACK.
FLAMMABILITY RATING UL 94V-0
- CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.
- OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
100 MICRO-INCH MIN MATTE TIN. PINS ARE SOLDER DIPPED.
- 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, NAME, PART NUMBER AND DATE CODE.
- 3. THE PRODUCT IS RoHS COMPLIANT.

© UL RECOGNIZED - FILE #E169987.

- [4] THE PRODUCT IS PATENTED. "PATENTED" MARKING IS ON THE TOP SURFACE. THE PATENT NUMBER ARE U.S. PAT. 7,429,195 & U.S. PAT. 6,840,817 & U.S. PAT. 7,123,117 AND U.S. PAT. 7,924,130.
- 5. THE AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.
- [6] THE FINISHED GOODS IS WITHOUT SMD LED. THE SMD LED IS PROVIDED BY CUSTOMER HERSELF. AND THE SMD LED IS MOUNTED ON CUSTOMER PCB.
- 7. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

ORIGINATED BY TONY YUAN	TITLE
DATE 2024-07-18	2X8 10 Gigabit MagJack®
DRAWN BY RICK LI	4PPoE, 60W
DATE 2024-07-18	PATENTED

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.XX	SCALE : N/A
.XXX ±0.010	SIZE : A4

REV. : 1	PAGE : 3
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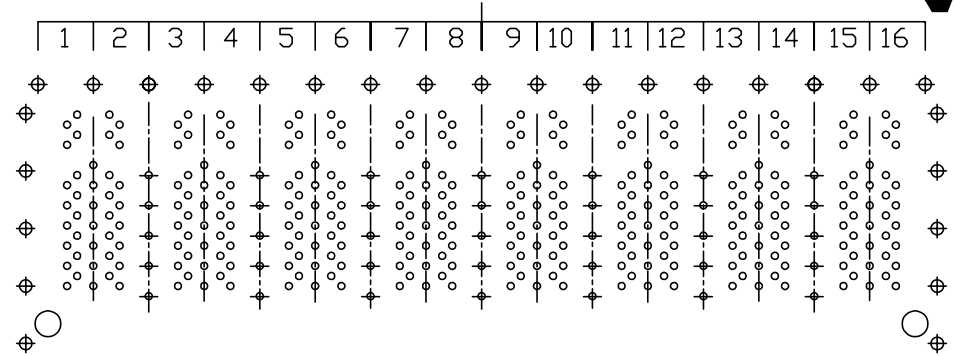
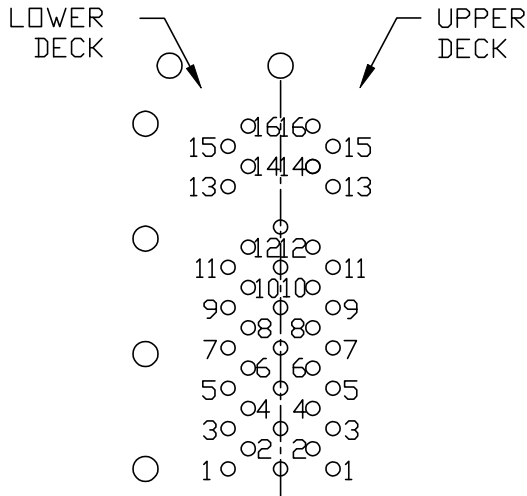


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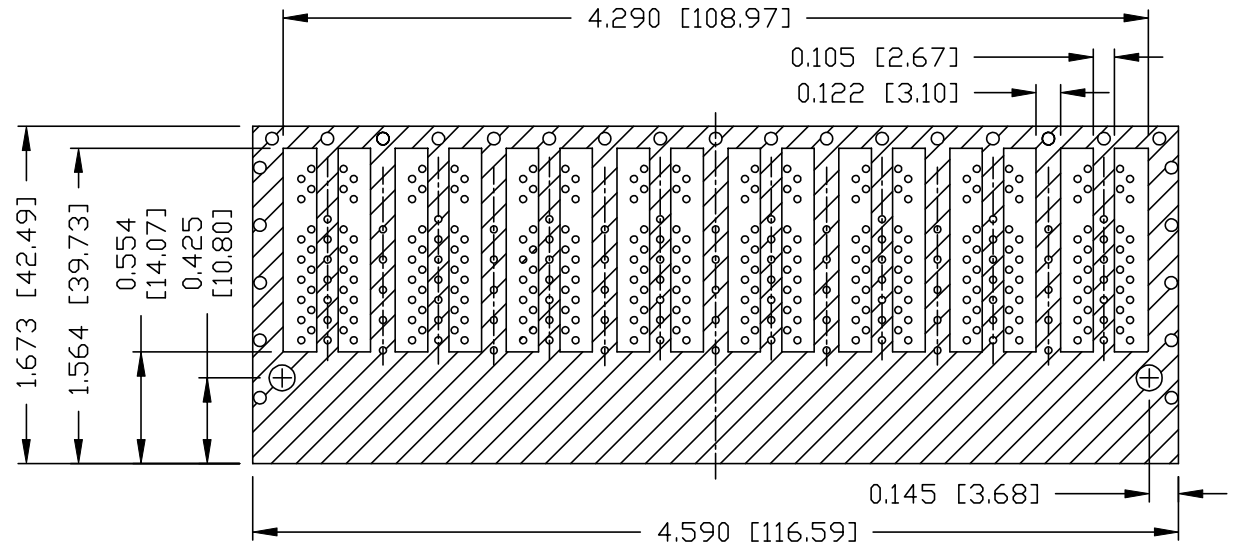
PORT ASSIGNMENT
(COMPONENT SIDE VIEW)

RoHS



PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

10	TRD4+		
9	TRCT3		
8	TRD3-		
7	TRD3+		
6	TRCT2	16	VC78
5	TRD2-	15	VC45
4	TRD2+	14	VC36
3	TRCT1	13	VC12
2	TRD1-	12	TRCT4
1	TRD1+	11	TRD4-



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

REV. : 1 PAGE : 4

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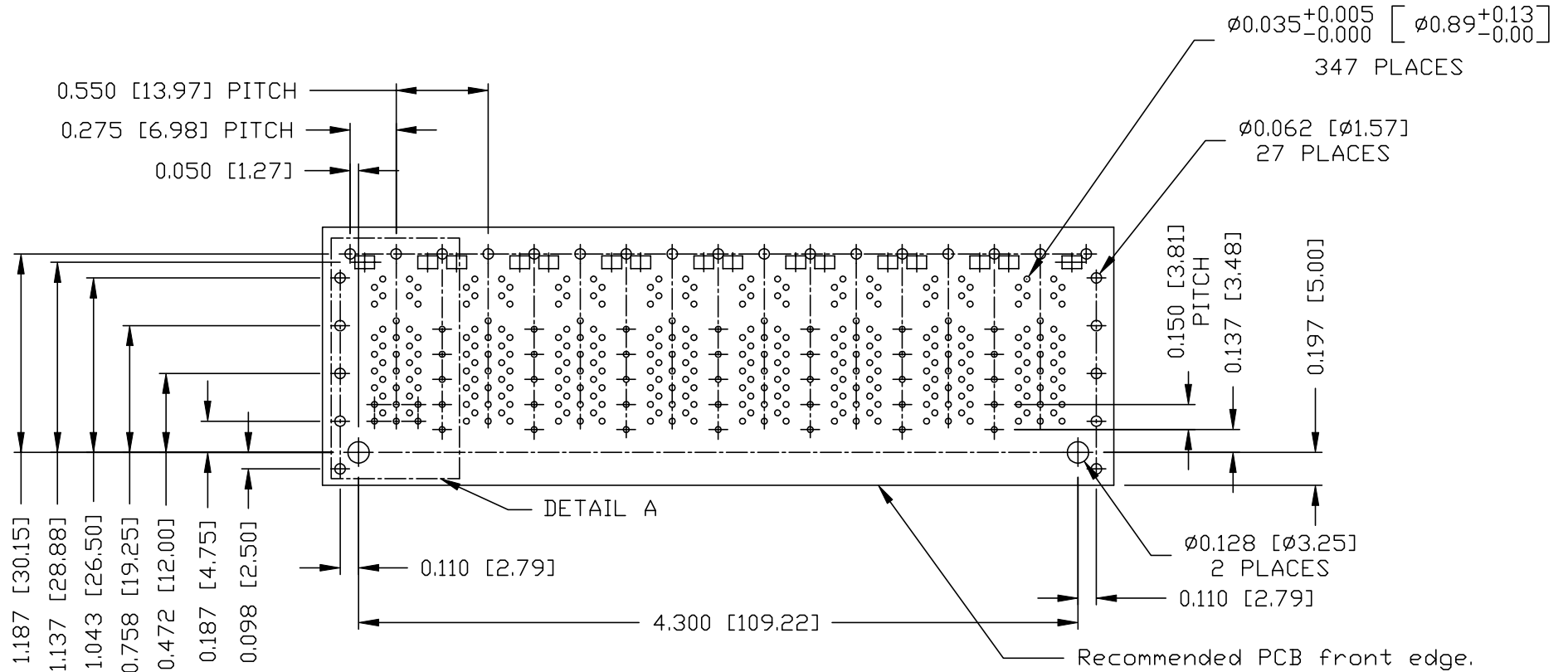
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PRELIMINARY



SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

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DATE 2024-07-18	
DRAWN BY RICK LI	
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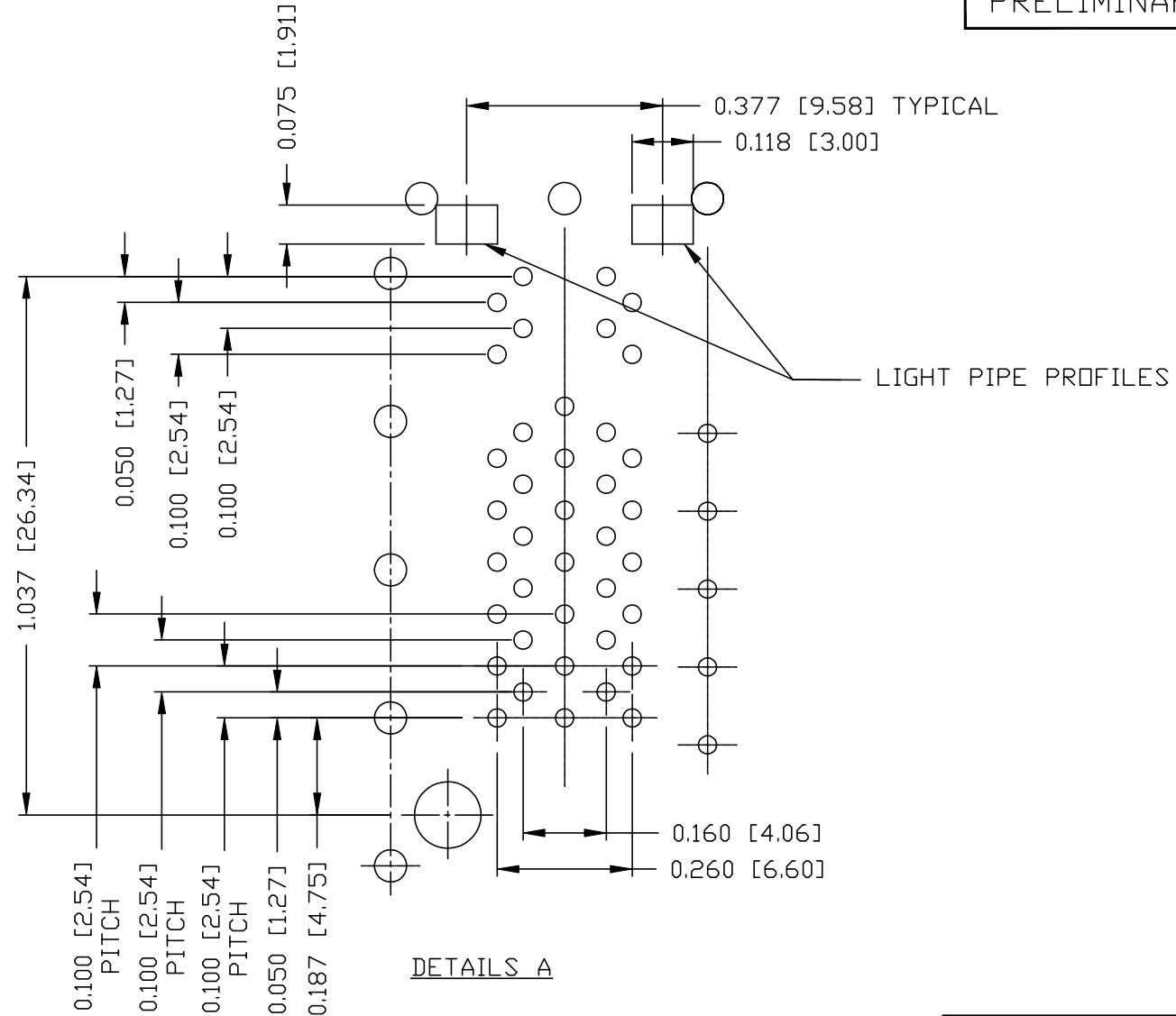
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PRELIMINARY



DETAILS A

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DATE 2024-07-18
DRAWN BY
RICK LI
DATE 2024-07-18

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.X	±0.004	UNIT : INCH [mm]
.XX		SCALE : N/A
.XXX		SIZE : A4

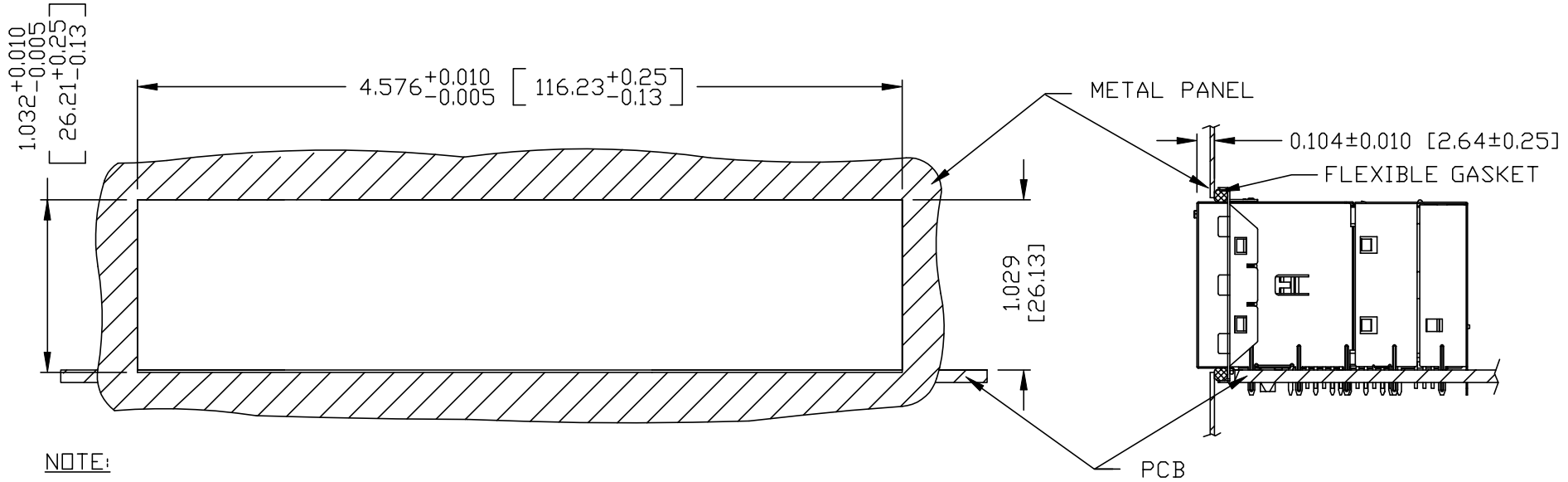
REV. : 1 PAGE : 6



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SUGGESTED PANEL OPENING

PRELIMINARY



NOTE:

1. 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.
2. RECOMMENDED COMPRESSION OF THE FLEXIBLE GASKET MATERIAL OF 25%.
3. RECOMMENDED FLEXIBLE GASKET THICKNESS BEFORE COMPRESSION IS 0.103 INCH.
4. THE FLEXIBLE GASKET CAN BE ORDERD SEPARATELY VIA PART NUMBER 0080M1700-05.

PACKING INFORMATION

PACKING TRAY : 0200-9999-D1 (TOP)
0200-9999-D9 (BOTTOM)

PACKING QUANTITY : 10 PCS FINISHED GOODS PER TRAY.
5 TRAYS (50 PCS FINISHED GOODS) PER CARTON BOX.


REMARK : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX.
(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

REV. :	1	PAGE :	7
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.XXX ±0.005	SIZE : A4

	
a bel group	