

RoHS



POWER | PROTECT | CONNECT

DOCUMENT / PART NO.: G14-D8NV-010N

TITLE : PRODUCT SPECIFICATION

ISSUE	DESCRIPTION OF CHANGE	REVIEWED BY	APPROVED BY	ECN#
1	PRELIMINARY	TONY YUAN		

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PRELIMINARY



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 < f < 40MHz	16 dB MIN
40MHz < f < 400MHz	16-10LOG(f/40MHz) dB
400MHz < f < 500MHz	6-30LOG(f/400MHz) dB

CM TO CM REJ

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

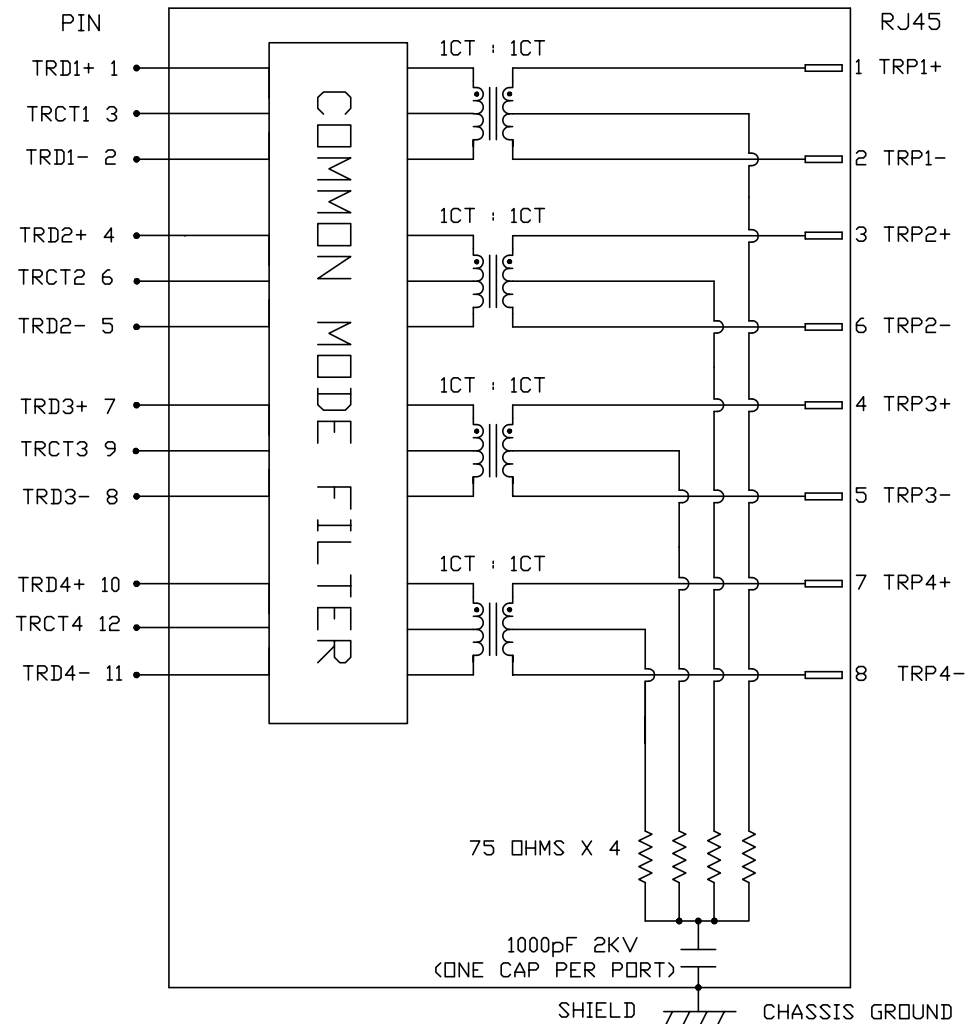
1MHz - 500MHz	-30 dB MIN
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HIPOT (Isolation Voltage): 2250VDC

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

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

SCHEMATIC



ORIGINATED BY
BILL LIU
DATE 2024-07-16
DRAWN BY
TERRY LIN
DATE 2024-07-16

TITLE
2X8 10 Gigabit MagJack®
PATENTED

PART NO. / DRAWING NO.
G14-D8NV-010N
FILE NAME
G14-D8NV-010N_1.DWG

STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	SIZE : A4

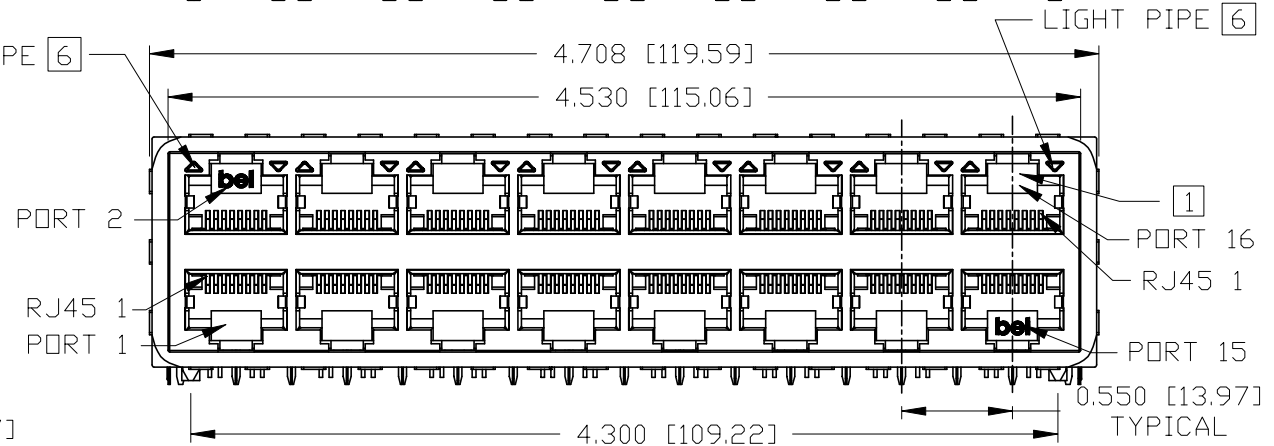
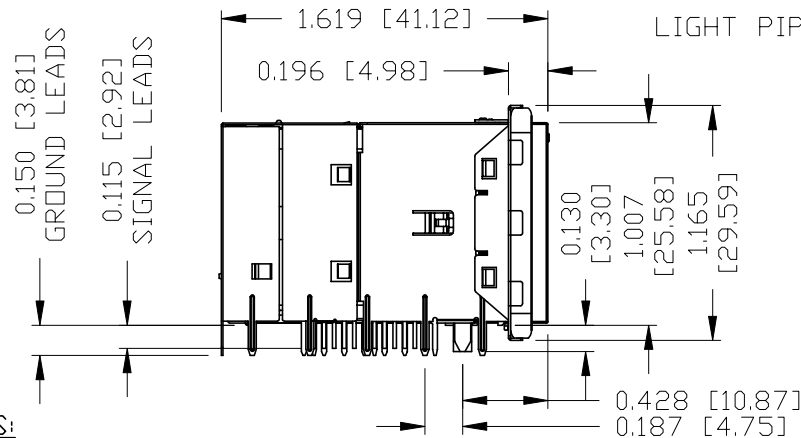
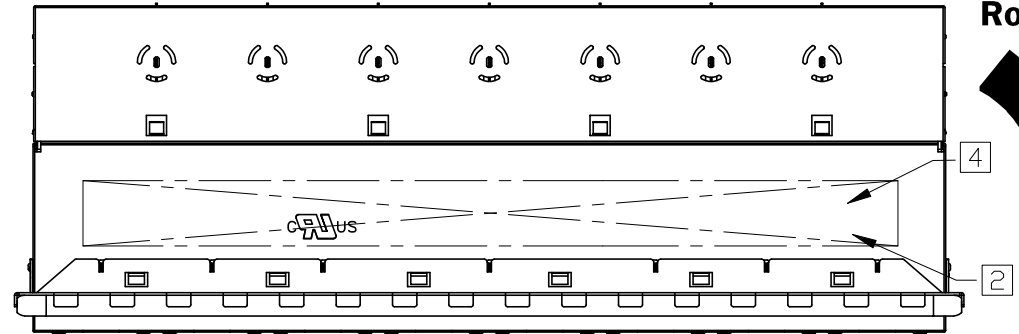
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NOTES:

- 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.

c 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.

REV. : 1 PAGE : 3

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TONY YUAN
DATE 2024-07-16
DRAWN BY
RICK LI
DATE 2024-07-16

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.XXX	±0.010	SIZE : A4

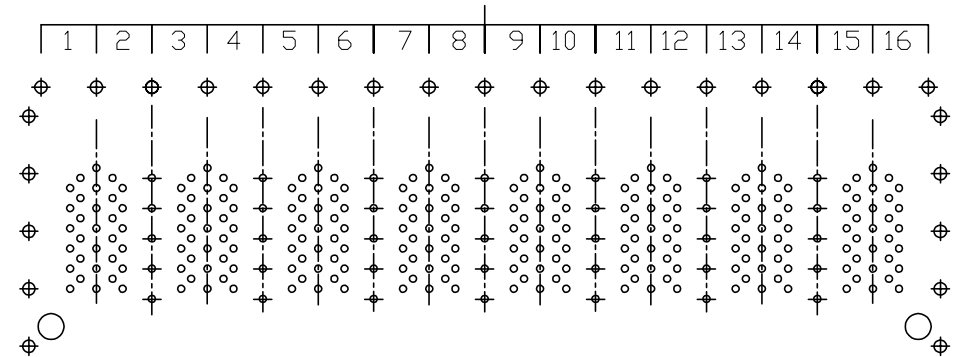
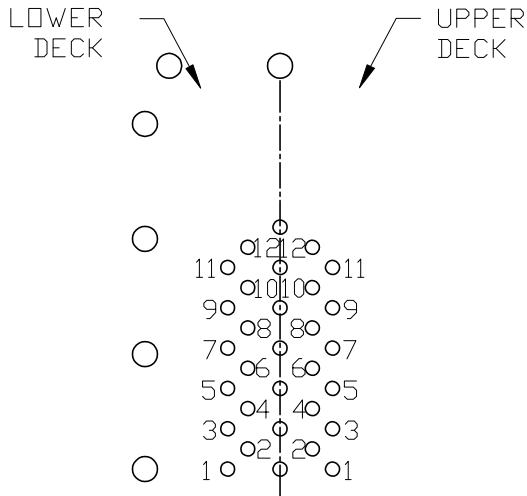


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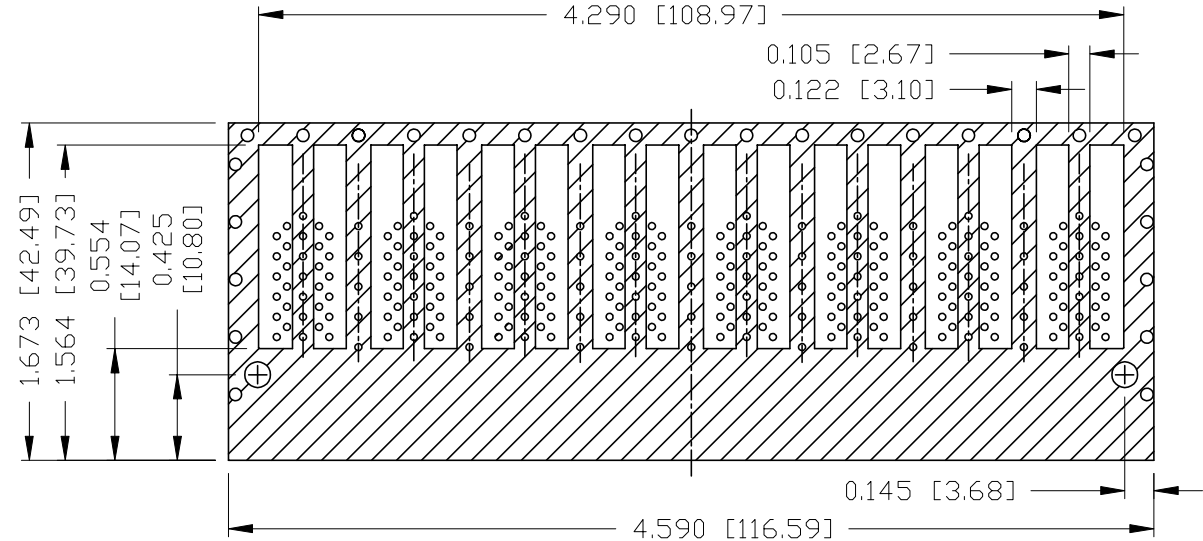


PORT ASSIGNMENT
(COMPONENT SIDE VIEW)



PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

10	TRD4+		
9	TRCT3		
8	TRD3-		
7	TRD3+		
6	TRCT2		
5	TRD2-		
4	TRD2+		
3	TRCT1		
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.

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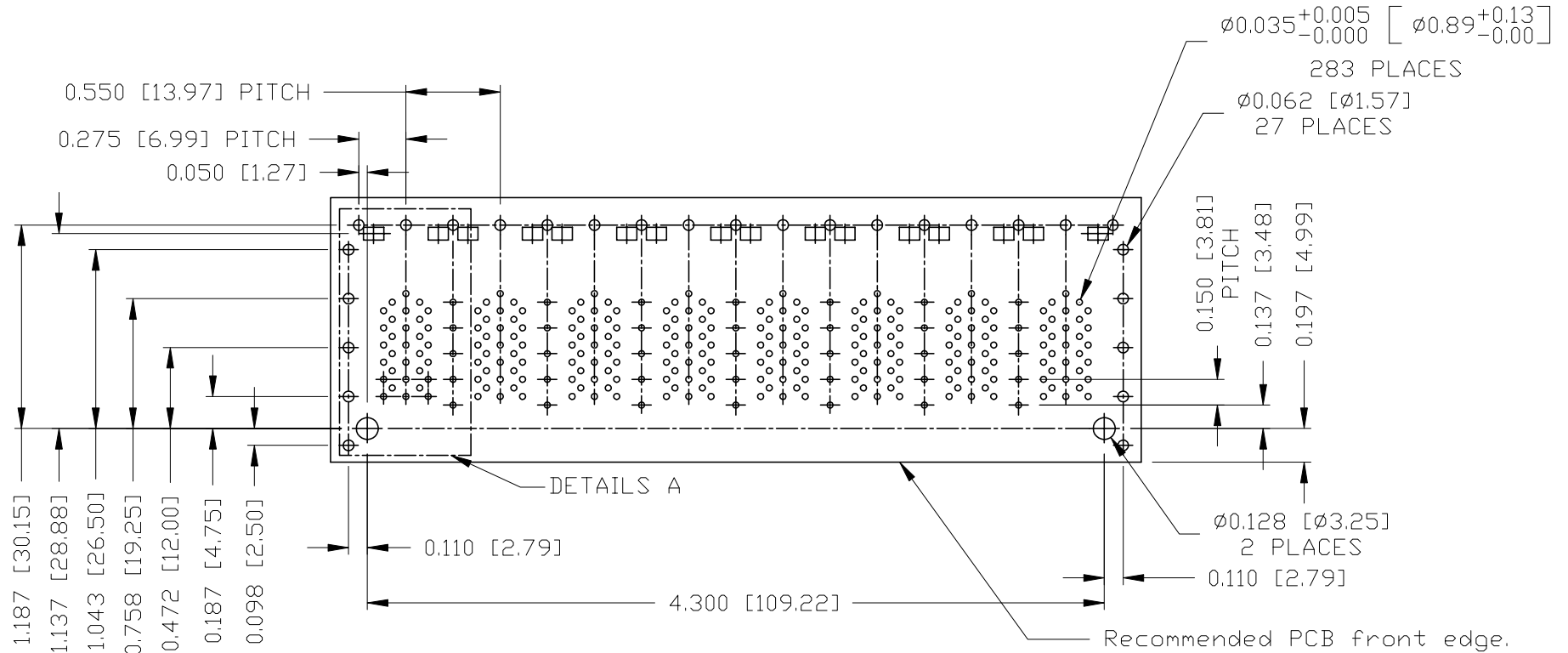
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.XXX	±0.004	SIZE : A4	



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PRELIMINARY



SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

REV. :	1	PAGE :	5
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DATE 2024-07-16	
DRAWN BY RICK LI	
DATE 2024-07-16	

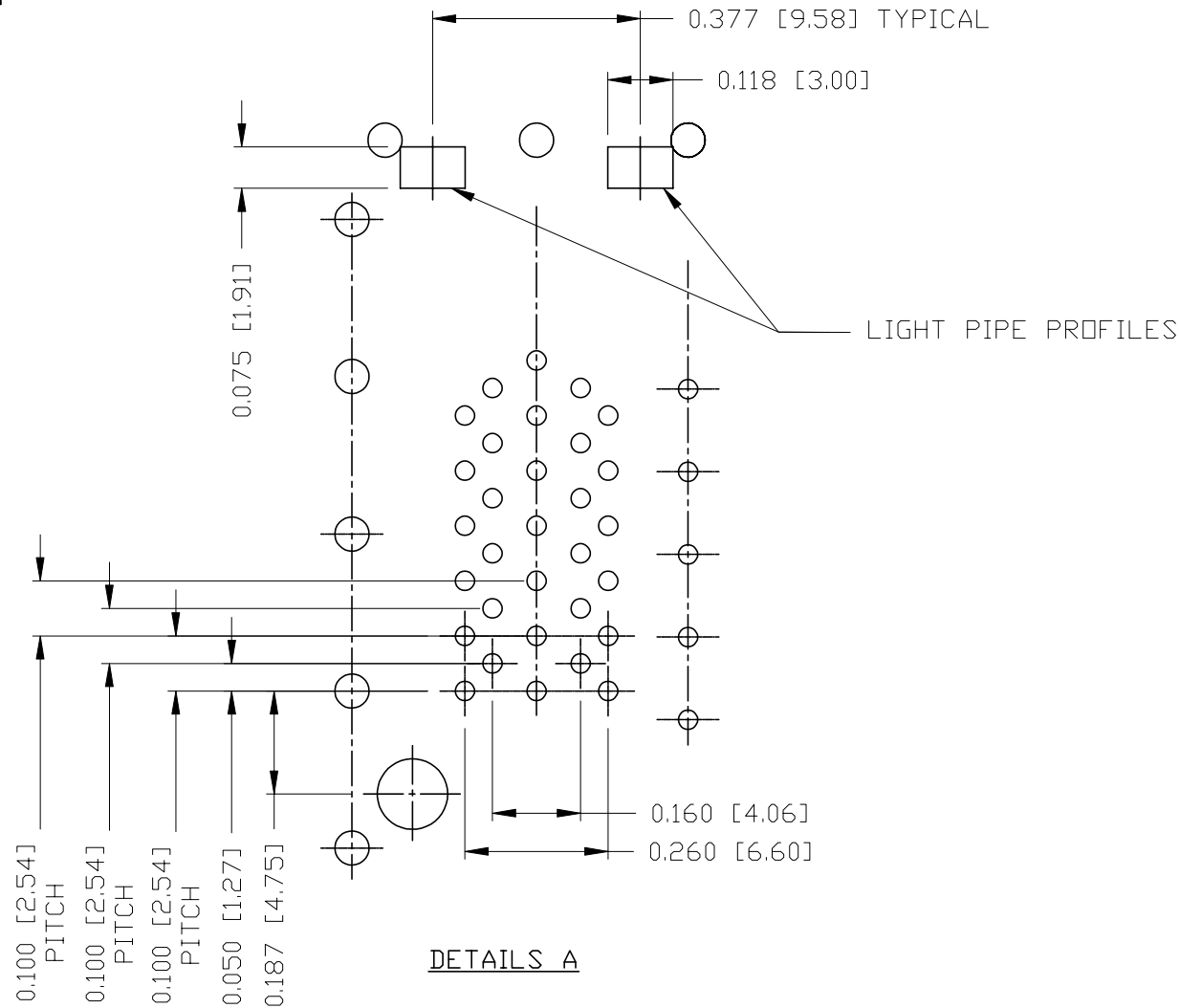
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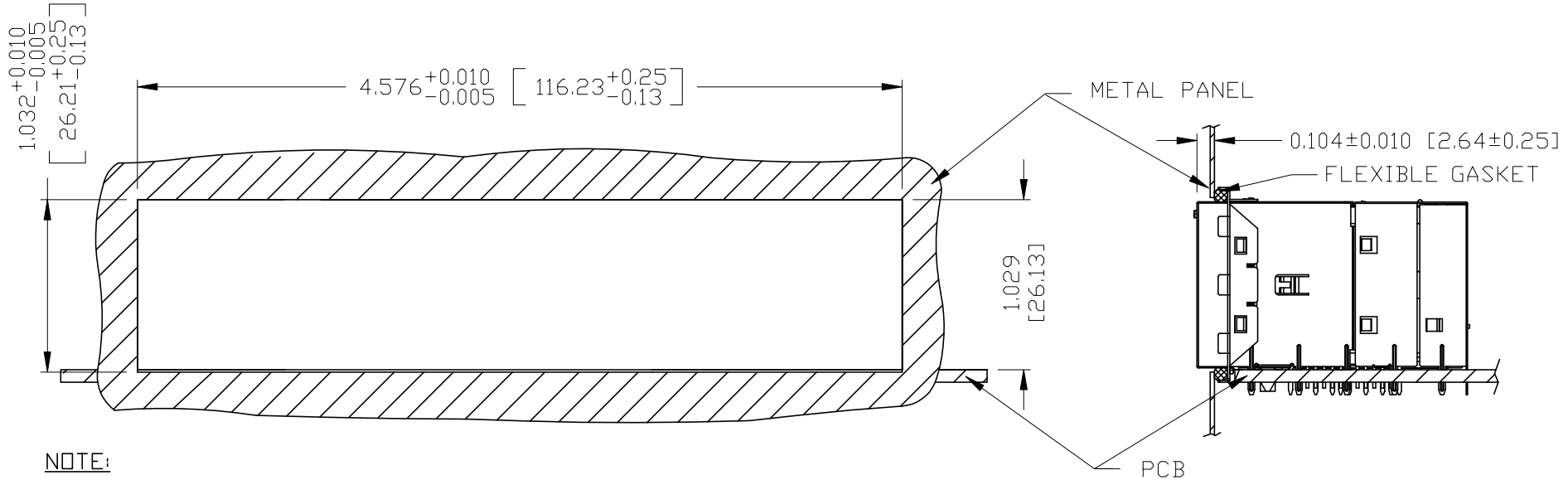
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SUGGESTED PANEL OPENING

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)

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			±0.005	

