



RoHS



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POWER | PROTECT | CONNECT

DOCUMENT / PART NO.: G37-88NV-010N

TITLE : PRODUCT SPECIFICATION

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

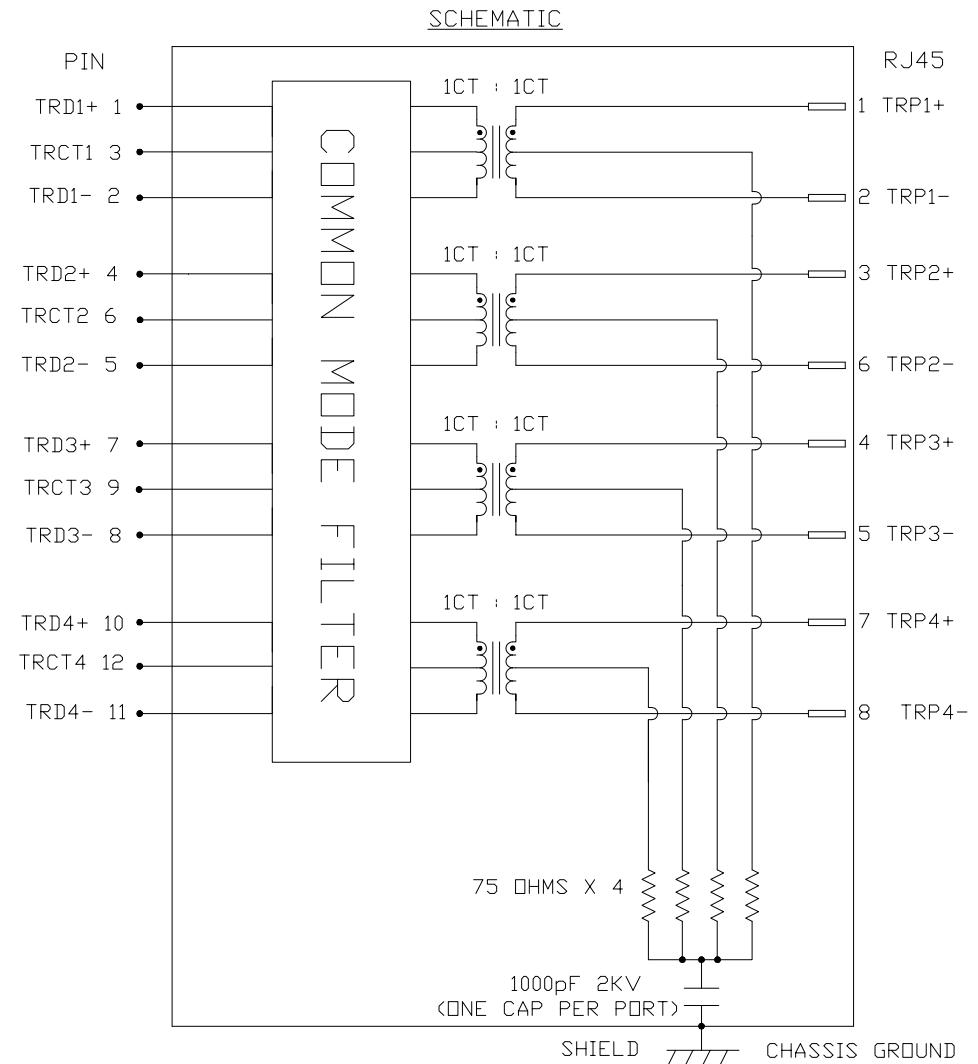
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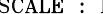
PRELIMINARY



ELECTRICAL CHARACTERISTICS @ 25°C

TURNS 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
CM TO DM REJ	
1MHz - 500MHz	-30 dB MIN
HIPOT (Isolation Voltage): 2250VDC	
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.	
OPERATING TEMPERATURE: -40°C TO +85°C.	

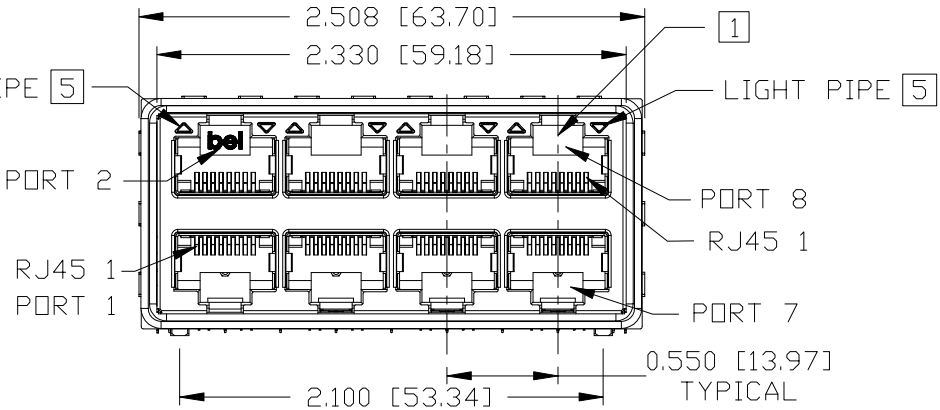
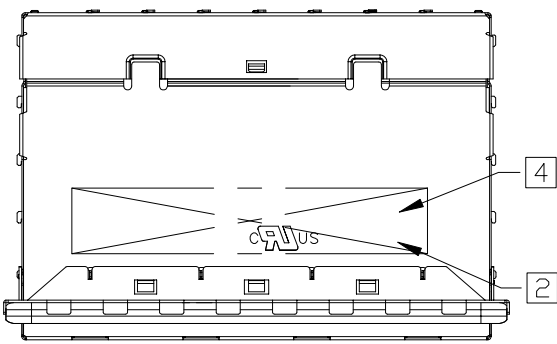
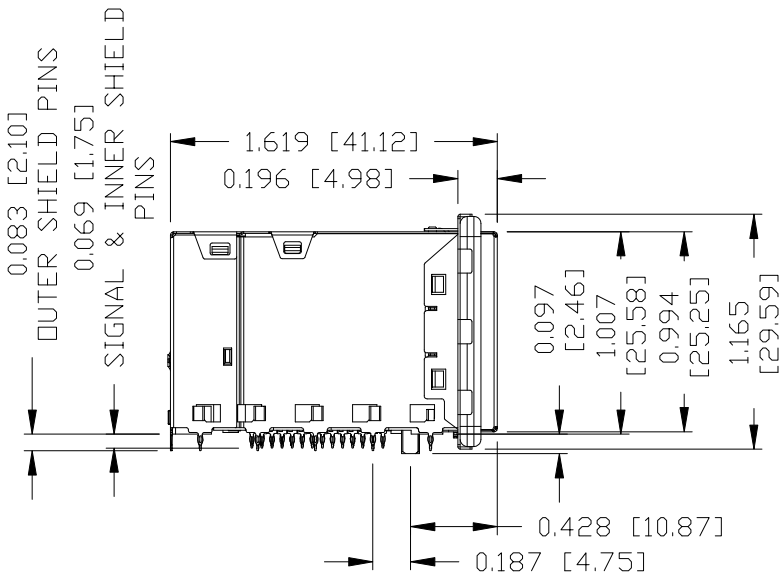


				REV. : 1		PAGE : 2			
ORIGINATED BY BILL LIU DATE 2024-07-18		TITLE 2X4 10 Gigabit MagJack® PRESS FIT PATENTED		PART NO. / DRAWING NO. G37-88NV-010N		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.	
DRAWN BY TERRY LIN DATE 2024-07-18				FILE NAME G37-88NV-010N_1.DWG		.X		UNIT : INCH [mm]	
						.XX		SCALE : N/A	
						.XXX		 SIZE : A4	
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NOTES:

- PLASTIC HOUSING: THERMOPLASTIC HTN, BLACK.
FLAMMABILITY RATING UL 94V-0
- CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT
- OUTPUT PINS: NICKEL PLATED ON COPPER ALLOY PRESS FIT PINS
- METAL SHIELD: NICKEL OR TIN PLATED ON COPPER ALLOY.

- [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 FINISHED GOODS IS WITHOUT SMD LED. THE SMD LED IS PROVIDED BY CUSTOMER HERSELF. AND THE SMD LED IS MOUNTED ON CUSTOMER PCB.
- [6] RECOMMENDED MINIMUM CUSTOMER PCB THICKNESS IS 0.080 INCH.
- [7] DATUM C AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

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

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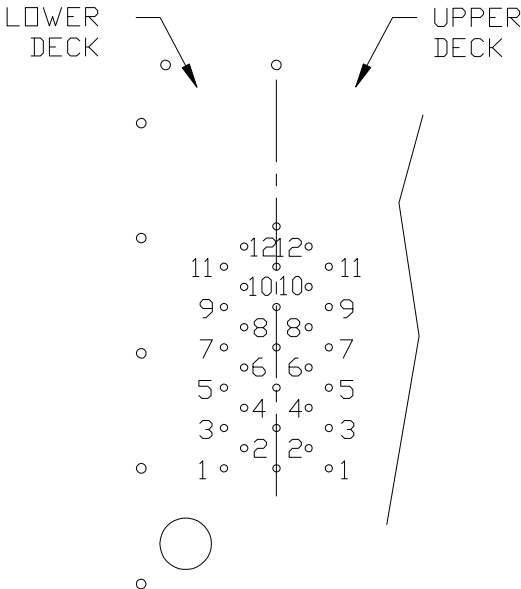
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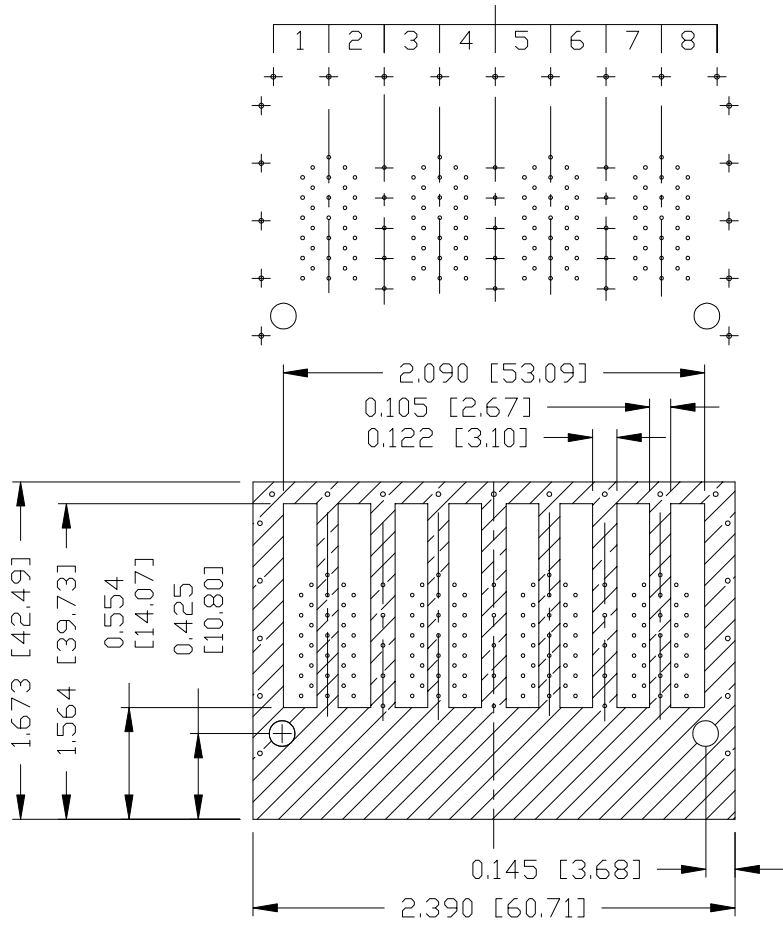
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PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

10	TRD4+		
9	TRCT3		
8	TRD3-		
7	TRD3+		
6	TRCT2		
5	TRD2-		
4	TRD2+		
3	TRCT1		
2	TRD1-	12	TRCT4
1	TRD1+	11	TRD4-

PORT ASSIGNMENT
(COMPONENT SIDE VIEW)



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

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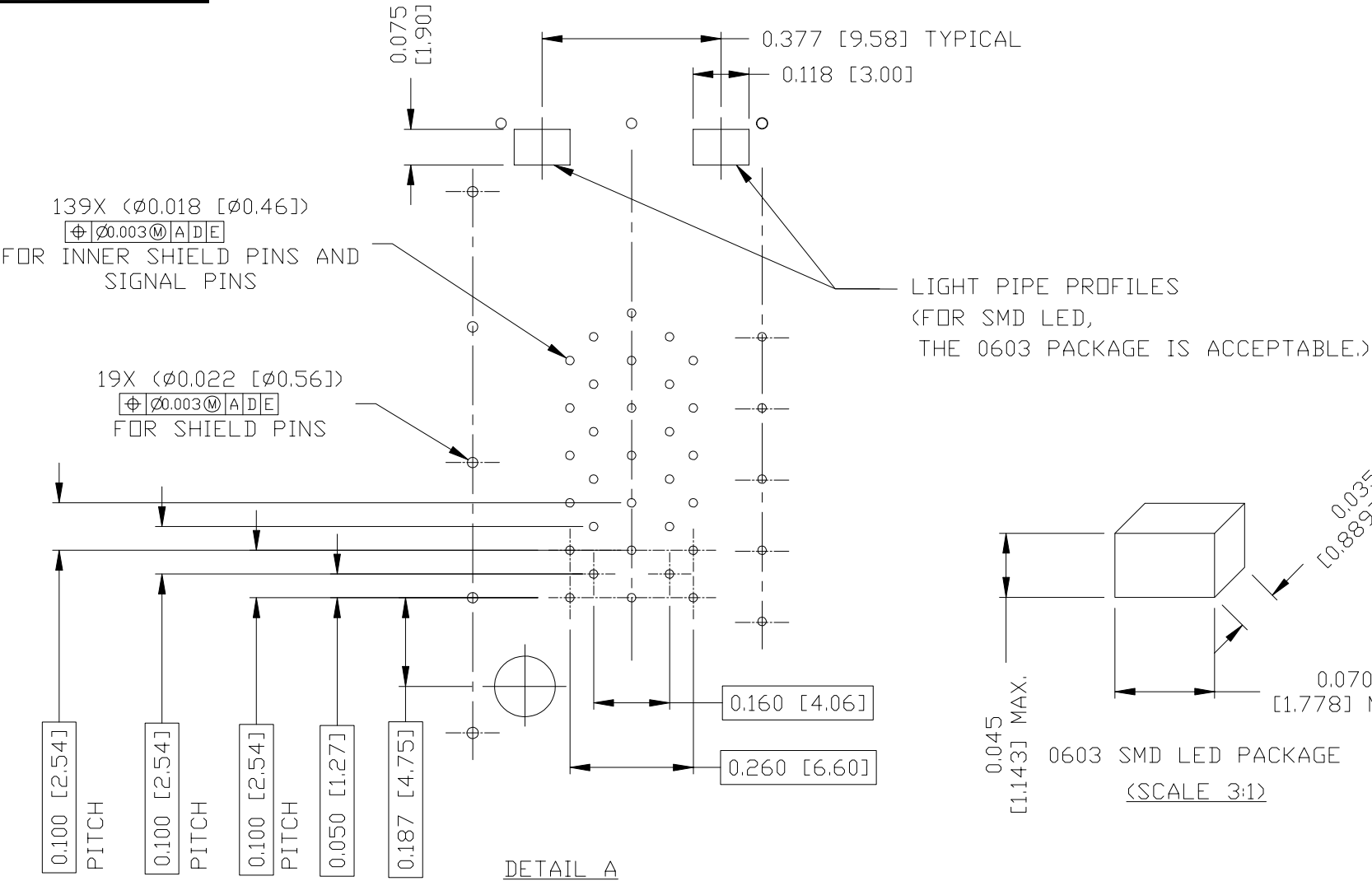
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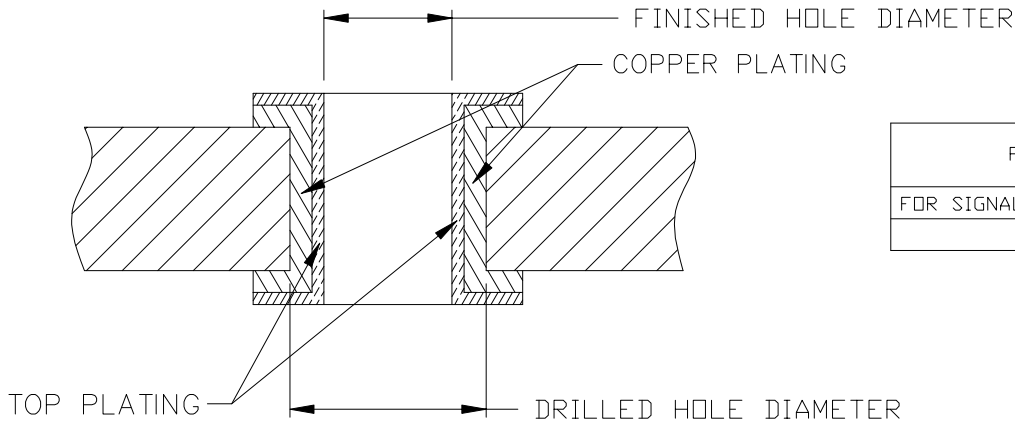
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PLATED-THROUGH-HOLE	DRILLED HOLE DIAMETER	FINISHED HOLE DIAMETER
FOR SIGNAL PINS AND INNER SHIELD PINS	0.022 [0.57]	<0.018 [0.46]] REF
FOR SHIELD PINS	0.026 [0.66]	<0.022 [0.56]] REF

PLATED-THROUGH-HOLE CROSS-SECTION

PLATING	THICKNESS IN MICRO-INCHES [MICRONS]
COPPER	1000-2000 [25-50]
TOP PLATING - USE ONE OPTION LISTED BELOW:	
HOT AIR SOLDER LEVELING (HASL) TIN-LEAD (Sn-Pb)	160-400 [4-10]
IMMERSION TIN (Sn)	20-40 [0.5-1.0]
ORGANIC SOLDERABILITY PRESERVATIVE (OSP)	10-20 [0.2-0.5]
IMMERSION GOLD (Au) OVER NICKEL (Ni) (ENIG)	5-20 [0.1-0.5] (Au) OVER 50-100 [1.2-2.5] (Ni)
TIN-LEAD (Sn-Pb)	400-1000 [10-25]
IMMERSION SILVER (Ag)	5-8 [0.10-0.15]

RECOMMENDED PLATED-THROUGH-HOLE
CONSTRUCTION DETAILS
FOR PRESS-FIT PINS

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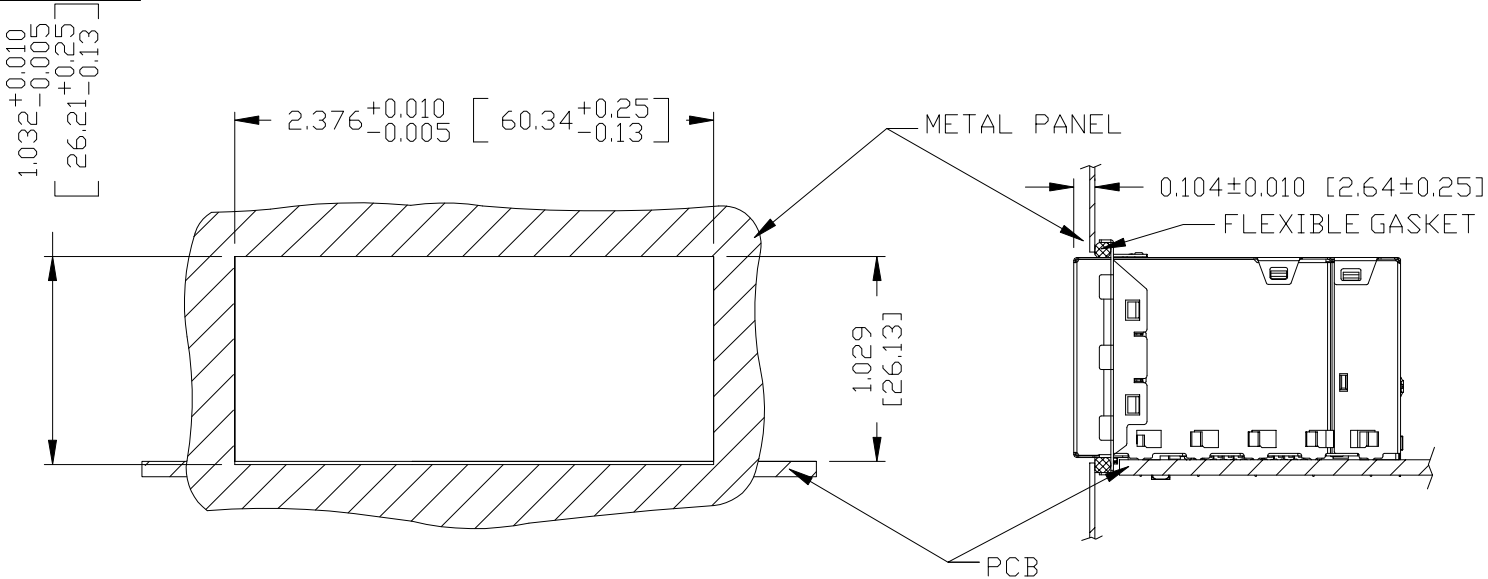
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SUGGESTED PANEL OPENING

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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 0080M1700-04.

PACKING INFORMATION

PACKING TRAY : 0200M9999-N1 (TOP)

0200M9999-T5 (BOTTOM)

PACKING QUANTITY : 12 PCS FINISHED GOODS PER TRAY.

7 TRAYS (84 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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