

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

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

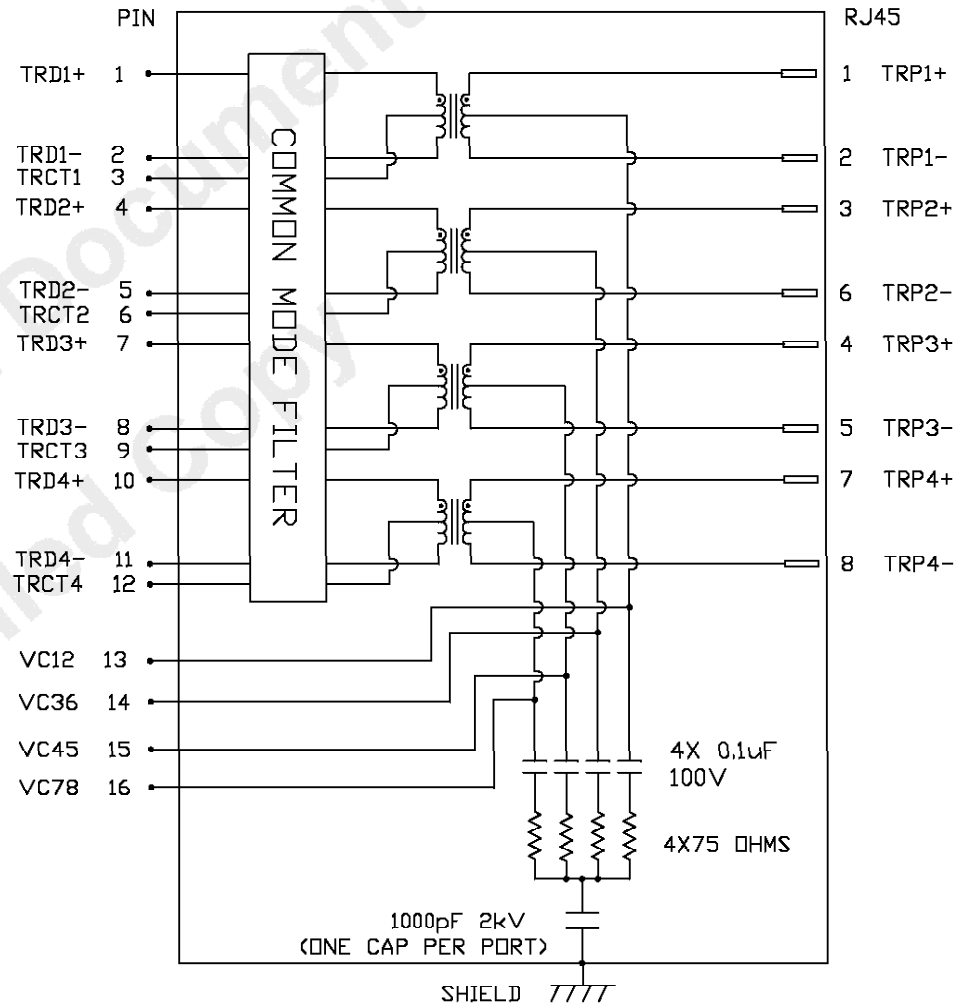
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

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
CHOW WANCHUNG
DATE 2021-05-24

DRAWN BY
TANG YUAN
DATE 2021-05-24

TITLE
2X8 10 GigaBit MagJack®
4PpOE, 60W
PATENTED

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

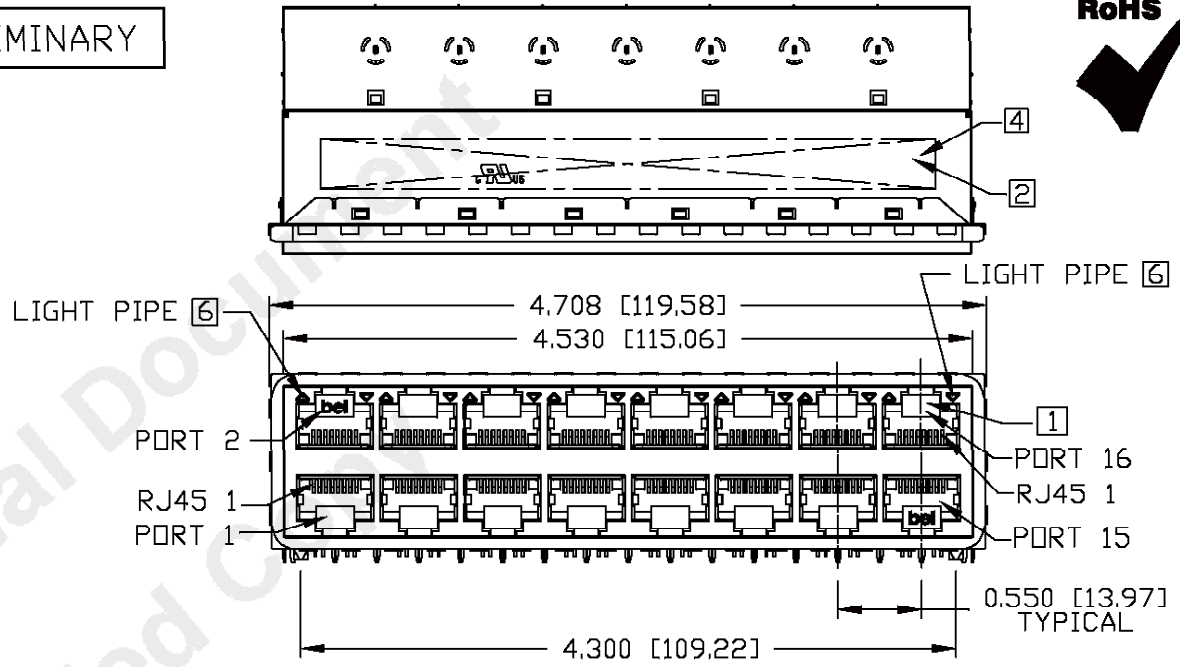
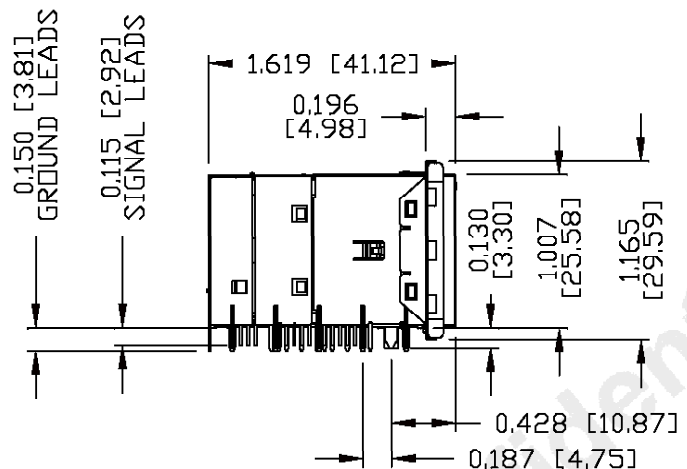
FILE NAME
G28-D8NV-011B_1.DWG

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.

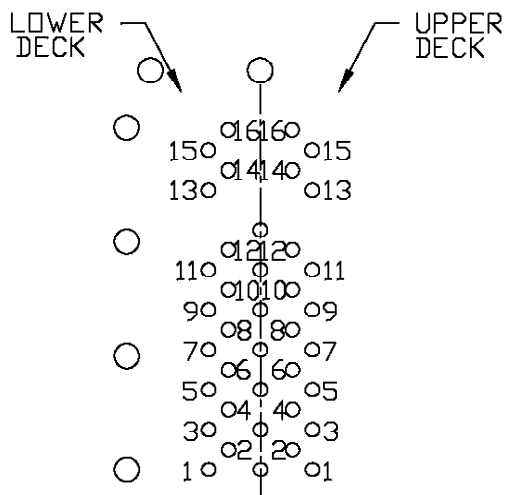
ORIGINATED BY SANDY LIN DATE 2021-05-24		TITLE 2X8 10 Gigabit MagJack® 4PPoE, 60W PATENTED		PART NO. / DRAWING NO. G28-D8NV-011B		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.		REV. : 1	PAGE : 3
DRAWN BY RUAN WENJUN DATE 2021-05-24				FILE NAME G28-D8NV-011B_1.DWG		.X .XX .XXX		UNIT : INCH [mm] SCALE : N/A SIZE : A4			
						#0.010					

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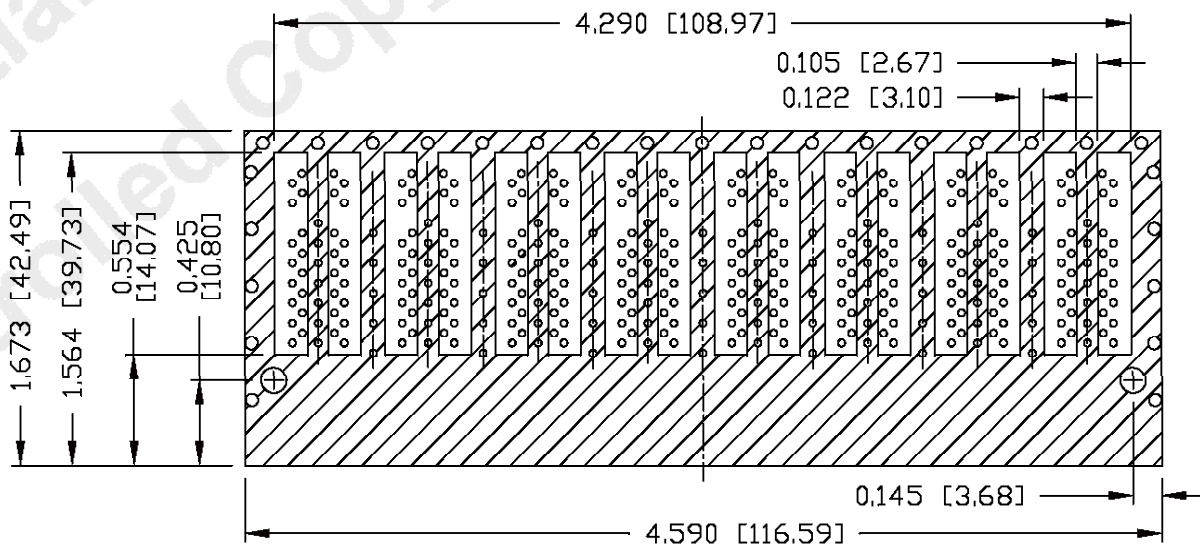
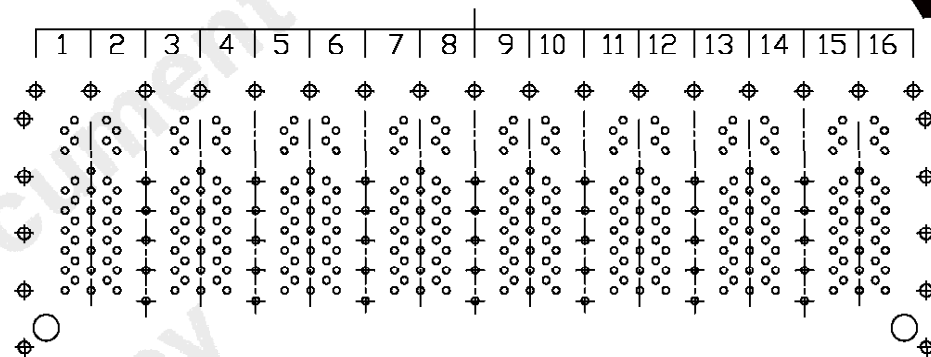
PORT ASSIGNMENT
(COMPONENT SIDE VIEW)

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.

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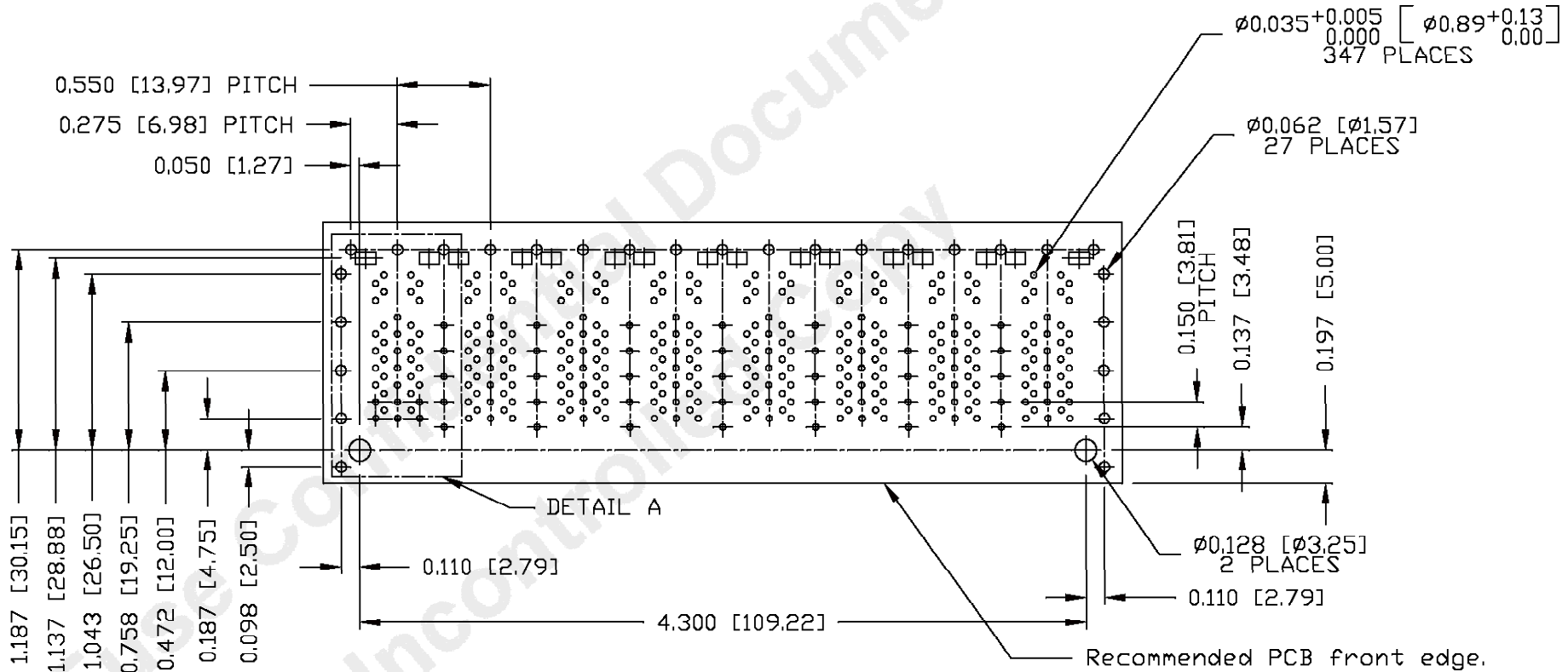
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PRELIMINARY



SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

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DATE 2021-05-24

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4PPoE, 60W
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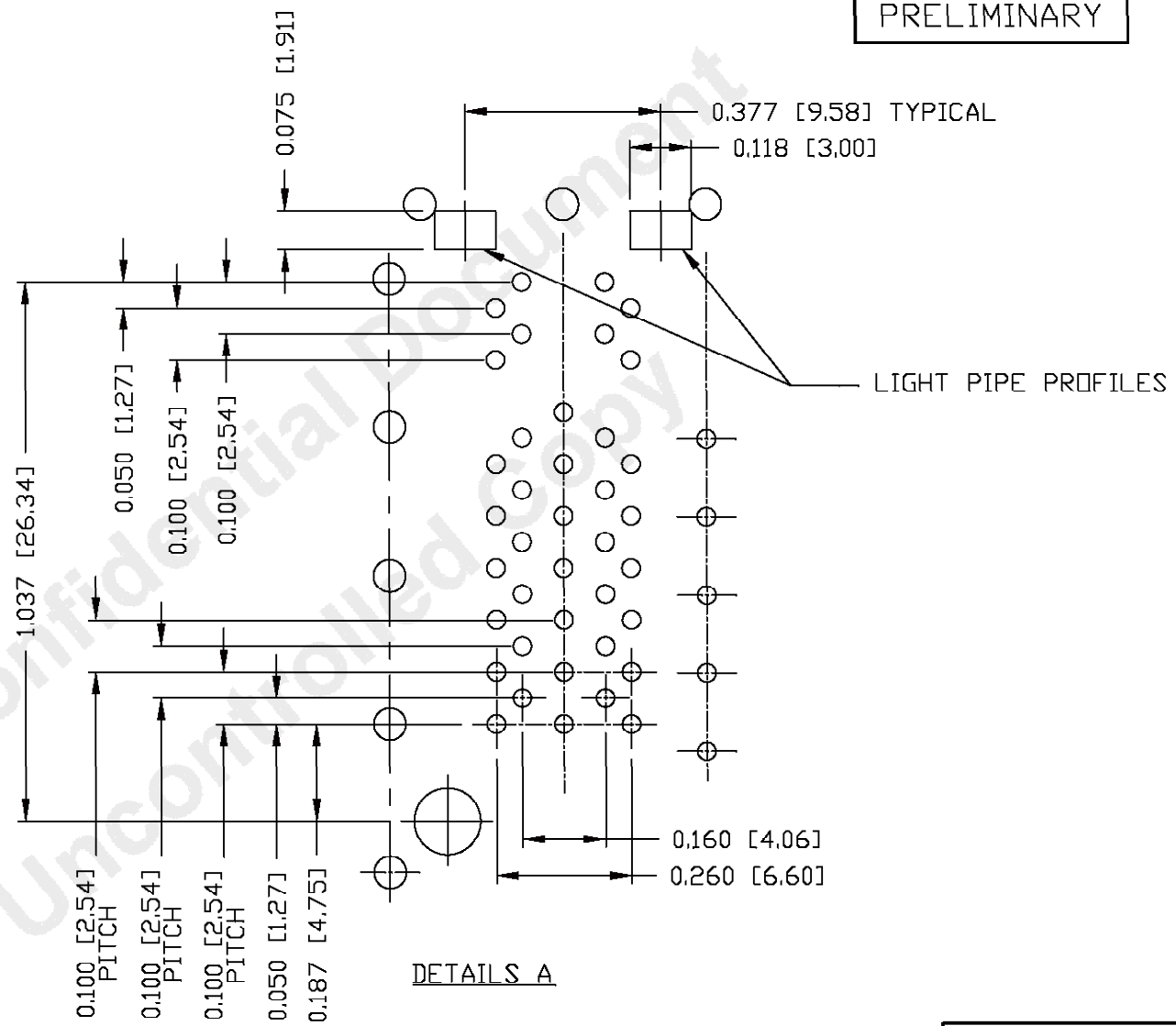
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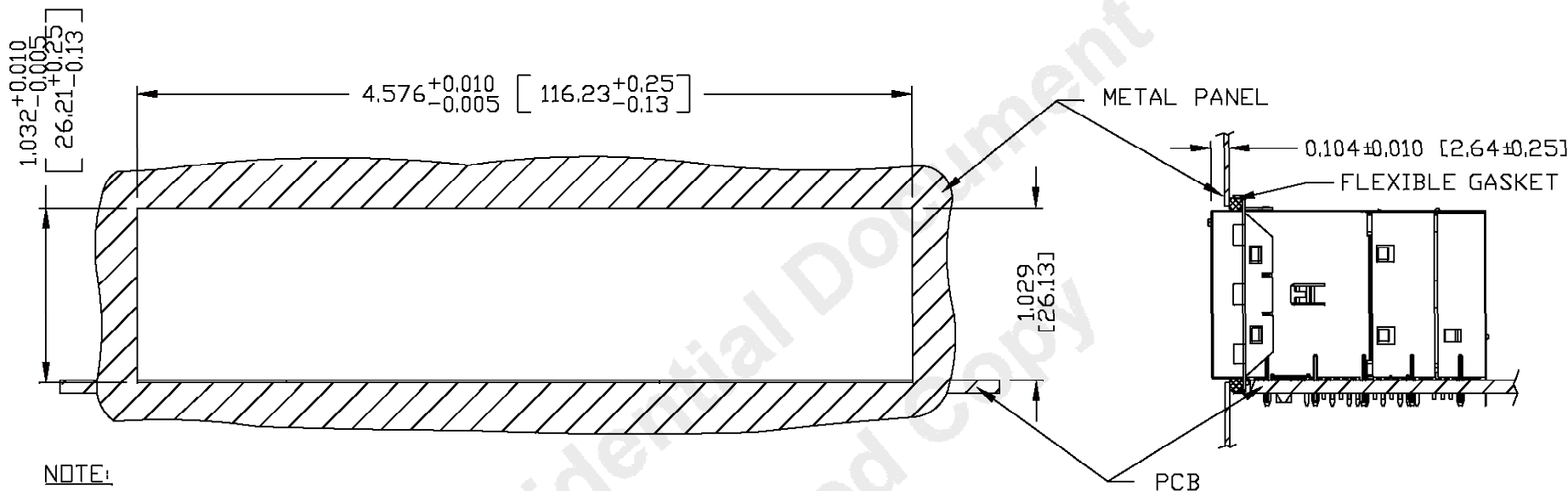


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SUGGESTED PANEL OPENING

PRELIMINARY

RoHS



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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TOL. IN INCH

[] METRIC DIM.
AS REF.

DRAWN BY
RUAN WENJUN
DATE 2021-05-24

4PPoE, 60W
PATENTED

FILE NAME

G28-D8NV-011B_1.DWG

.X

.XX

.XXX

±0.005

UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

