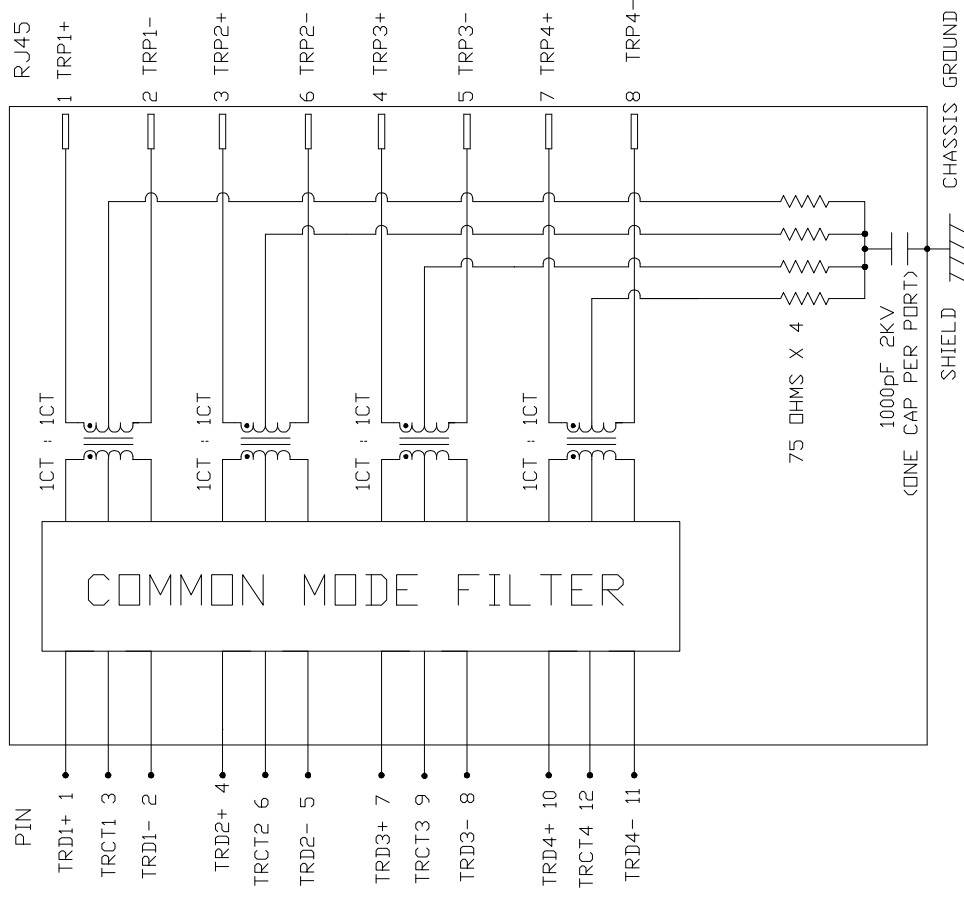


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PRELIMINARY

SCHEMATIC



ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO
 TP1 : 1CT
 TP2 : 1CT
 TP3 : 1CT
 TP4 : 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% DF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.
 OPERATING TEMPERATURE: -40°C TO +85°C.

ORIGINATED BY
 CHOW WANCHUNG
 DATE 2023-08-14

 DRAWN BY
 TERRY LIN
 DATE 2023-8-14

TITLE
 2X8 10 Gigabit MagJack®
 PRESS FIT
 PATENTED

PART NO. / DRAWING NO.
 G37-D8NV-010B

 FILE NAME
 G37-D8NV-010B_1.DWG

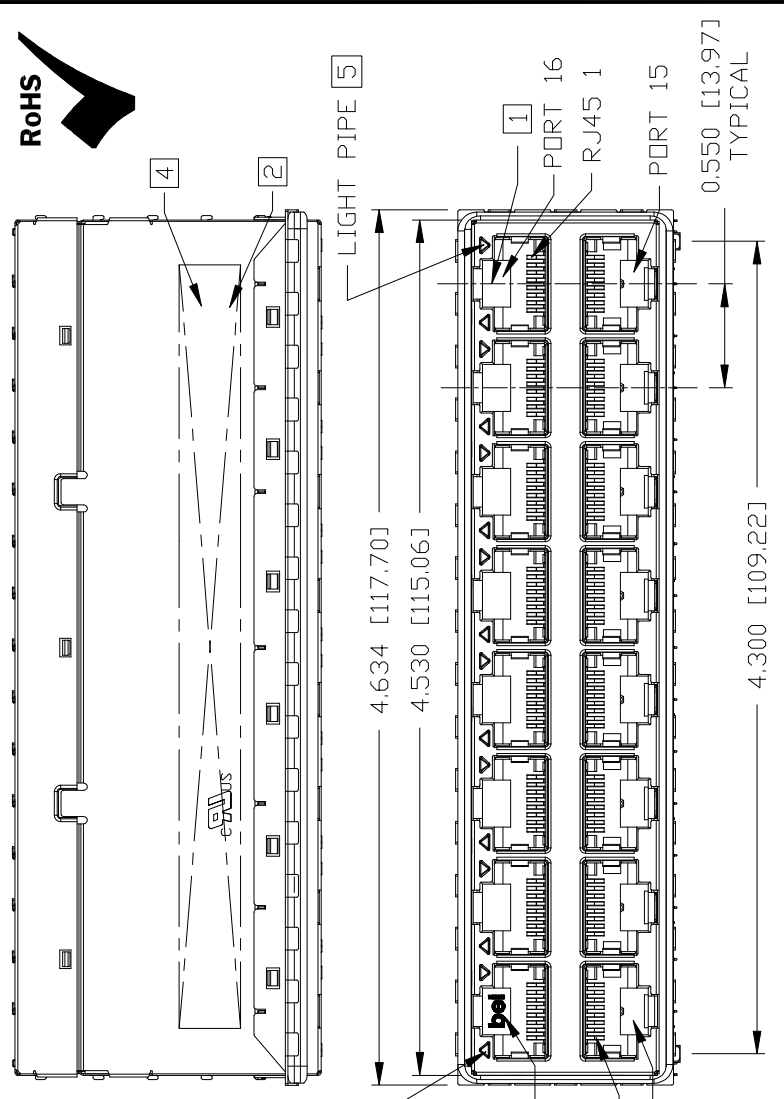
STANDARD DIM.
 [] METRIC DIM.
 AS REF.
 TOL. IN INCH
 .X
 .XX
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 UNIT : INCH [mm]
 SCALE : N/A
 SIZE : A4

REV. : 1 PAGE : 2



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PRELIMINARY



NOTES:

- 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.
- 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 & 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.

c **AI** US UL RECOGNIZED - FILE #E169987.

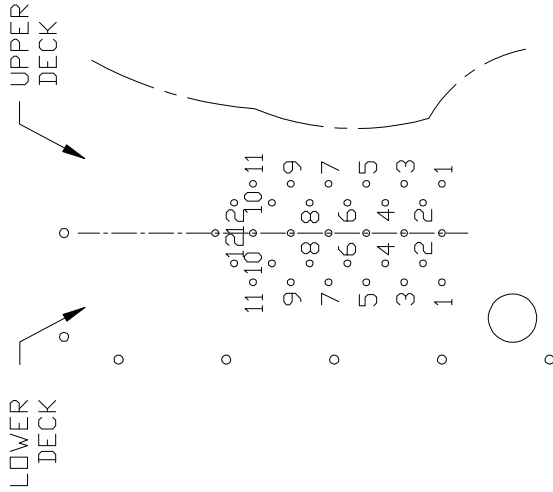
ORIGINATED BY TONY YUAN DATE 2023-08-14 DRAWN BY JARRY YE DATE 2023-8-14	TITLE 2X8 10 Gigabit MagJack® PRESS FIT PATENTED	PART NO. / DRAWING NO. G37-D8NV-010B FILE NAME G37-D8NV-010B_1.DWG	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.010	<input type="checkbox"/> METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A <input type="checkbox"/> SIZE : A4	REV. : 1 PAGE : 3
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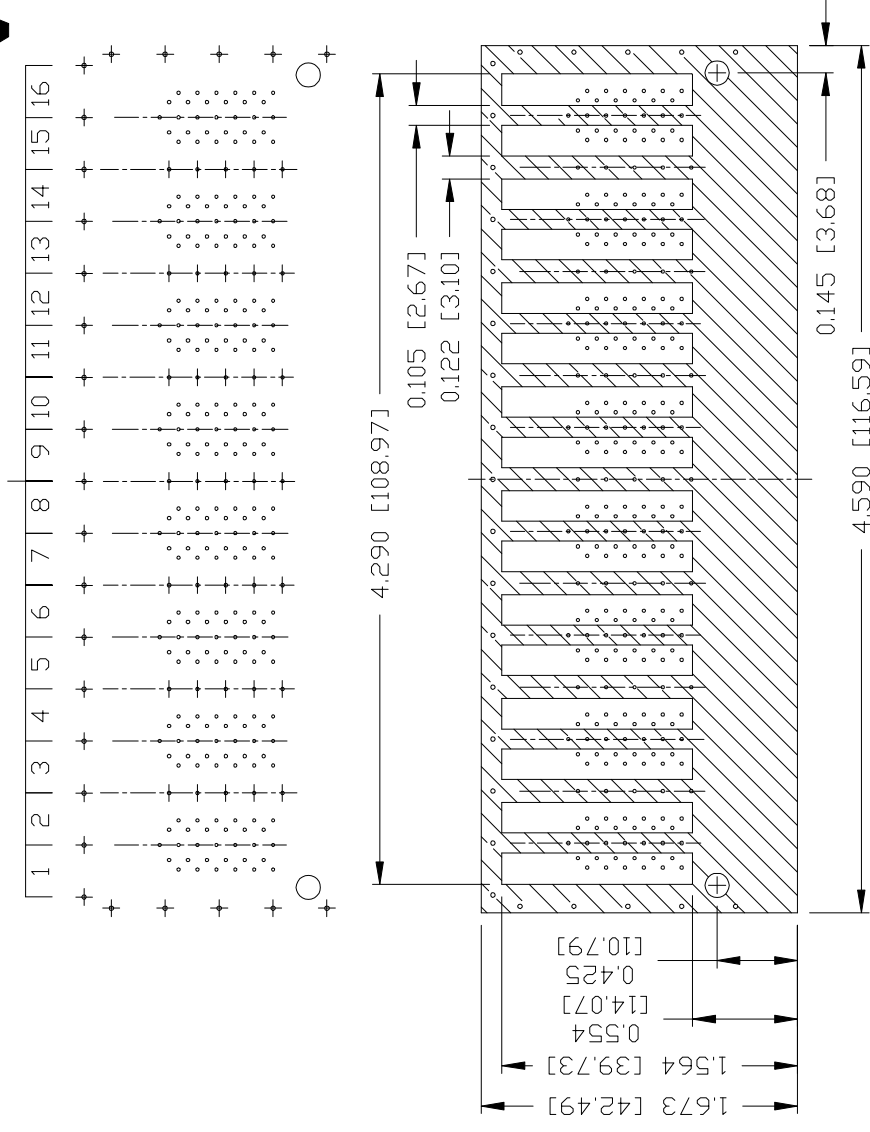
PRELIMINARY

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-
1	TRD1+



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

ORIGINATED BY TONY YUAN	TITLE 2X8 10 Gigabit MagJack®
DATE 2023-08-14	PRESS FIT
DRAWN BY JARRY YE	PATENTED
DATE 2023-8-14	

PART NO. / DRAWING NO. G37-D8NV-010B	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
FILE NAME G37-D8NV-010B_1.DWG	.X	UNIT : INCH [mm]
	.XX	SCALE : N/A
	.XXX	±0.004
		SIZE : A4

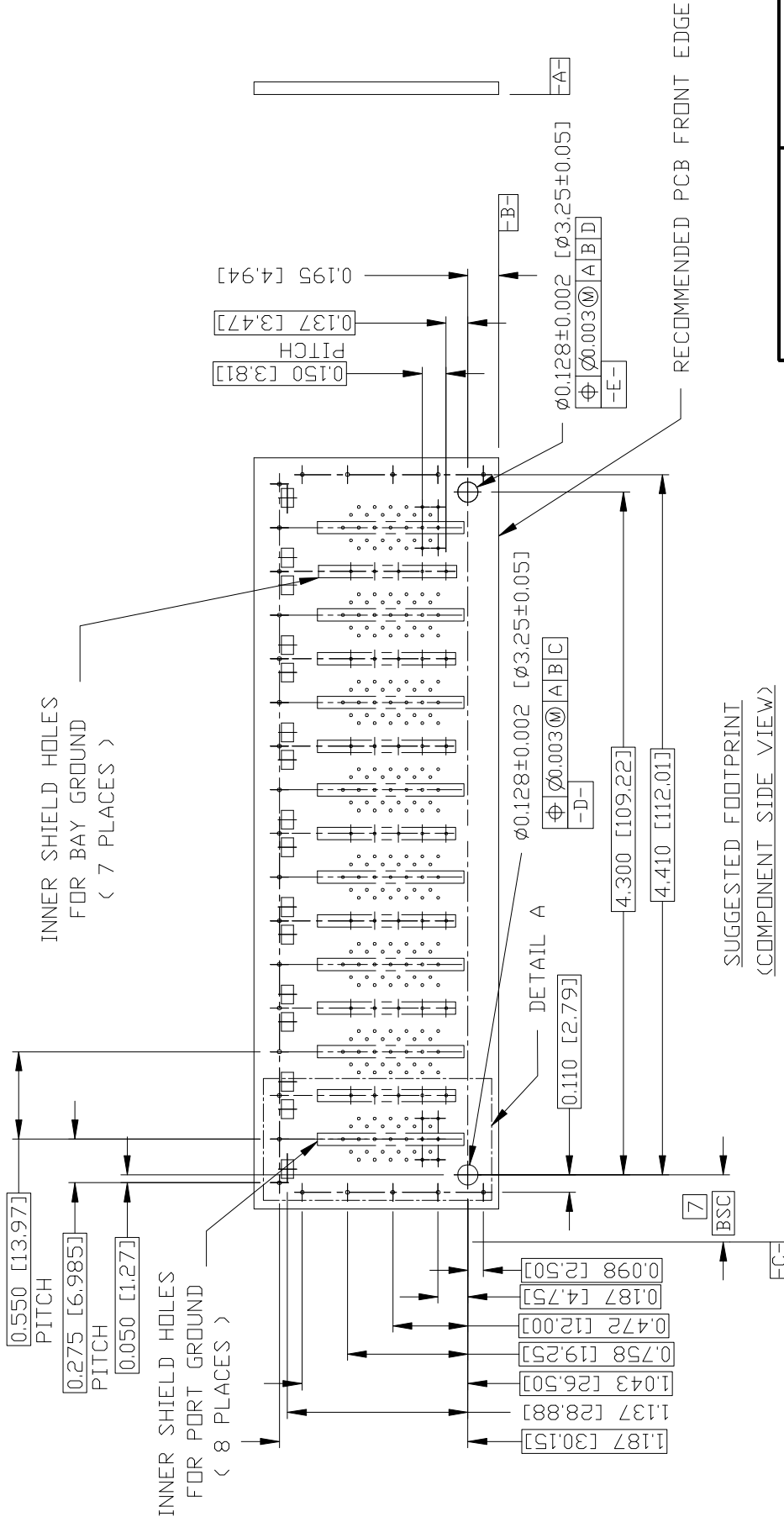
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PRELIMINARY

RoHS



STANDARD DIM.	[] METRIC DIM.
TOL. IN INCH	AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	±0.004
	SIZE : A4

PART NO. / DRAWING NO.	G37-D8NV-010B
FILE NAME	G37-D8NV-010B_1.DWG

TITLE	2X8 10 Gigabit MagJack® PRESS FIT PATENTED
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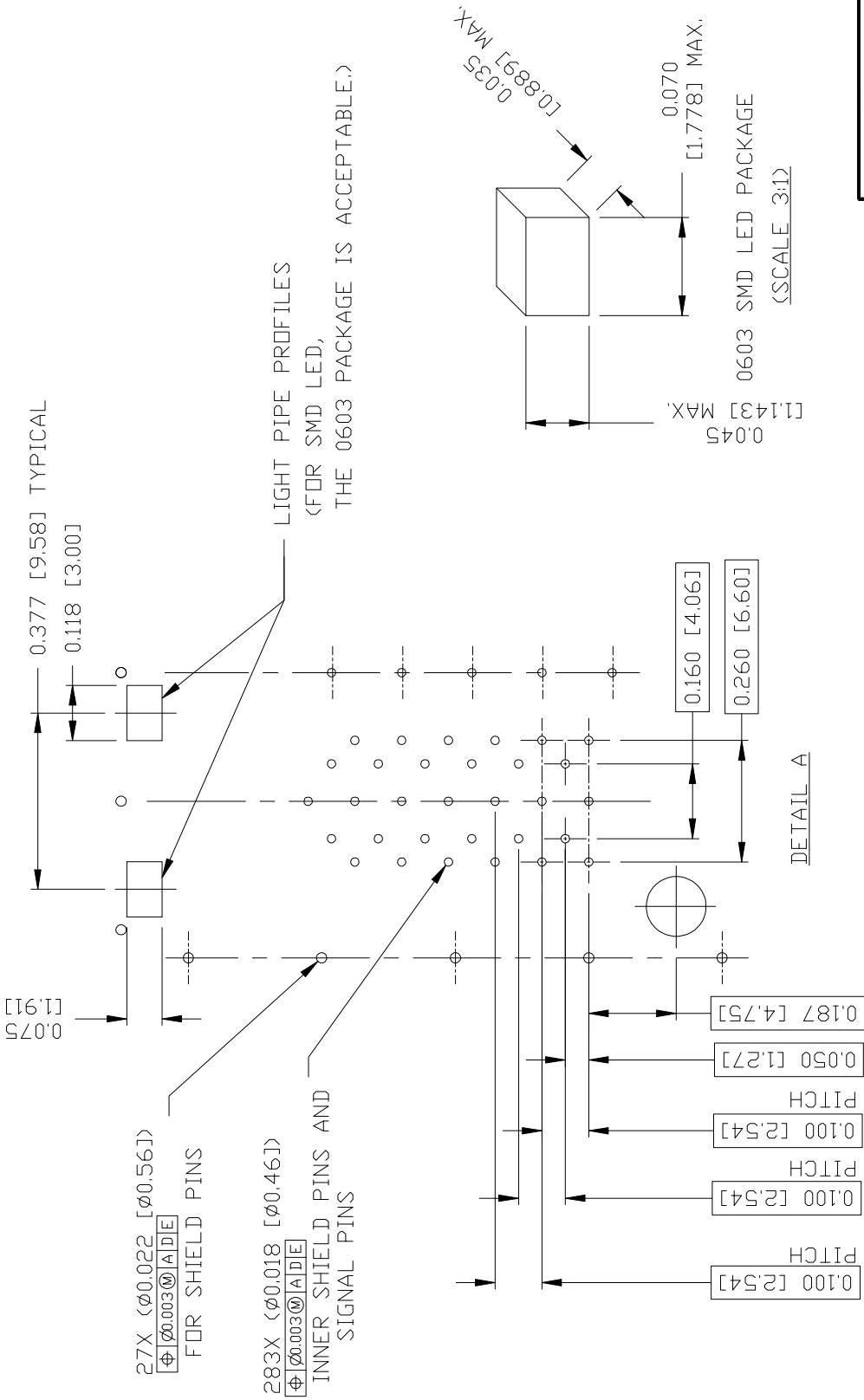
ORIGINATED BY	TONY YUAN
DATE	2023-08-14
DRAWN BY	JARRY YE
DATE	2023-8-14

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PRELIMINARY



ORIGINATED BY
TONY YUAN
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TITLE
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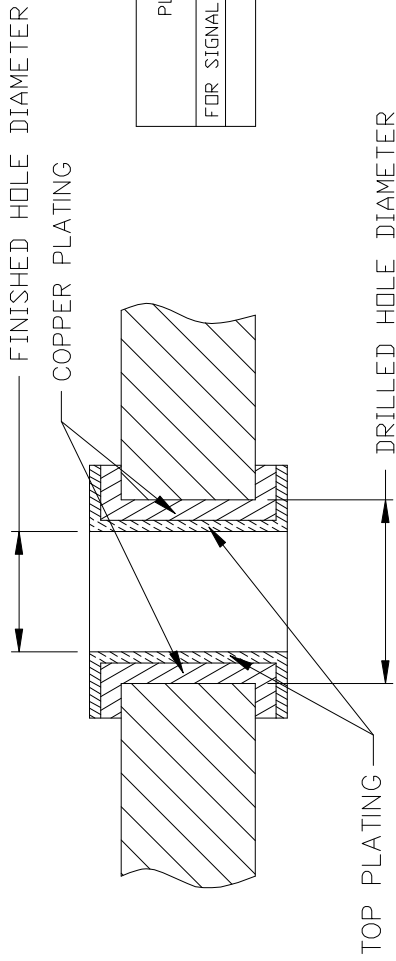


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PRELIMINARY



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

ORIGINATED BY TONY YUAN DATE 2023-08-14	TITLE 2X8 10 Gigabit MagJack® PRESS FIT PATENTED	PART NO. / DRAWING NO. G37-D8NV-010B FILE NAME G37-D8NV-010B_1.DWG	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.005	[] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
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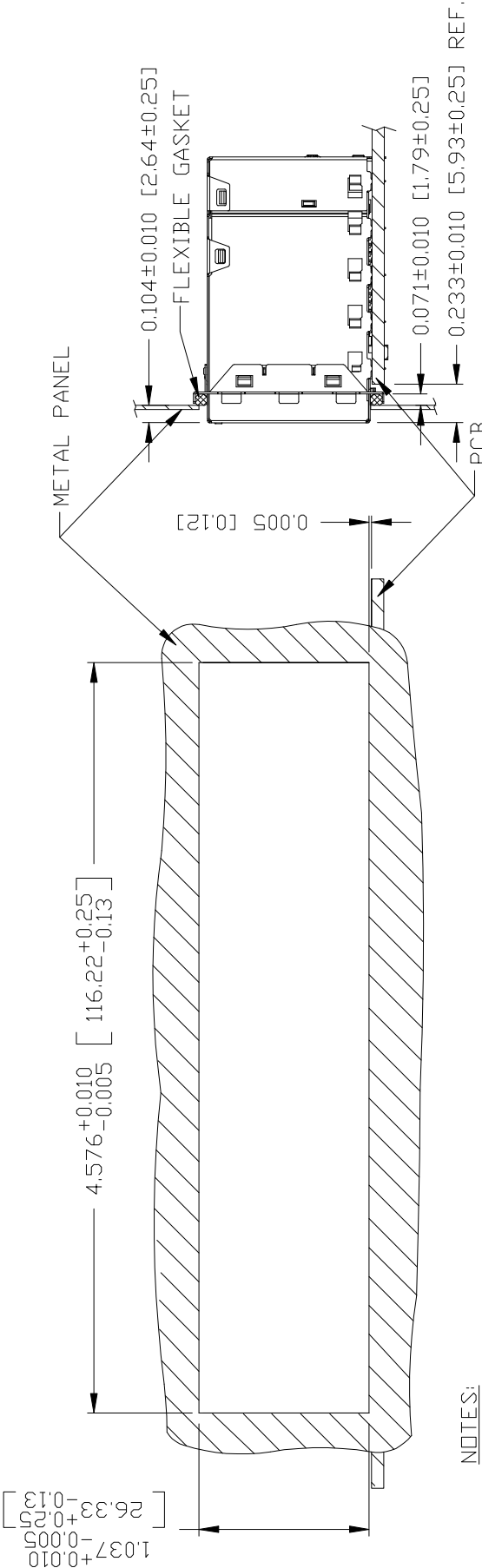
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PRELIMINARY

SUGGESTED PANEL OPENING



NOTES:

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 : 0200M9999-M1 (TOP)
0200M9999-R9 (BOTTOM)

PACKING QUANTITY : 6 PCS FINISHED GOODS PER TRAY.

7 TRAYS (42 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 : 8

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