

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

QCL @ 100kHz/100mVRMS (25°C) 160µH MIN.

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	-18 dB
2MHz	-20 dB
10MHz	-20 dB
100MHz	-20 dB
200MHz	-16 dB
300MHz	-13 dB
400MHz	-10 dB
500MHz	-8 dB

CM TO CM REJ

1MHz - 500MHz -25 dB MIN

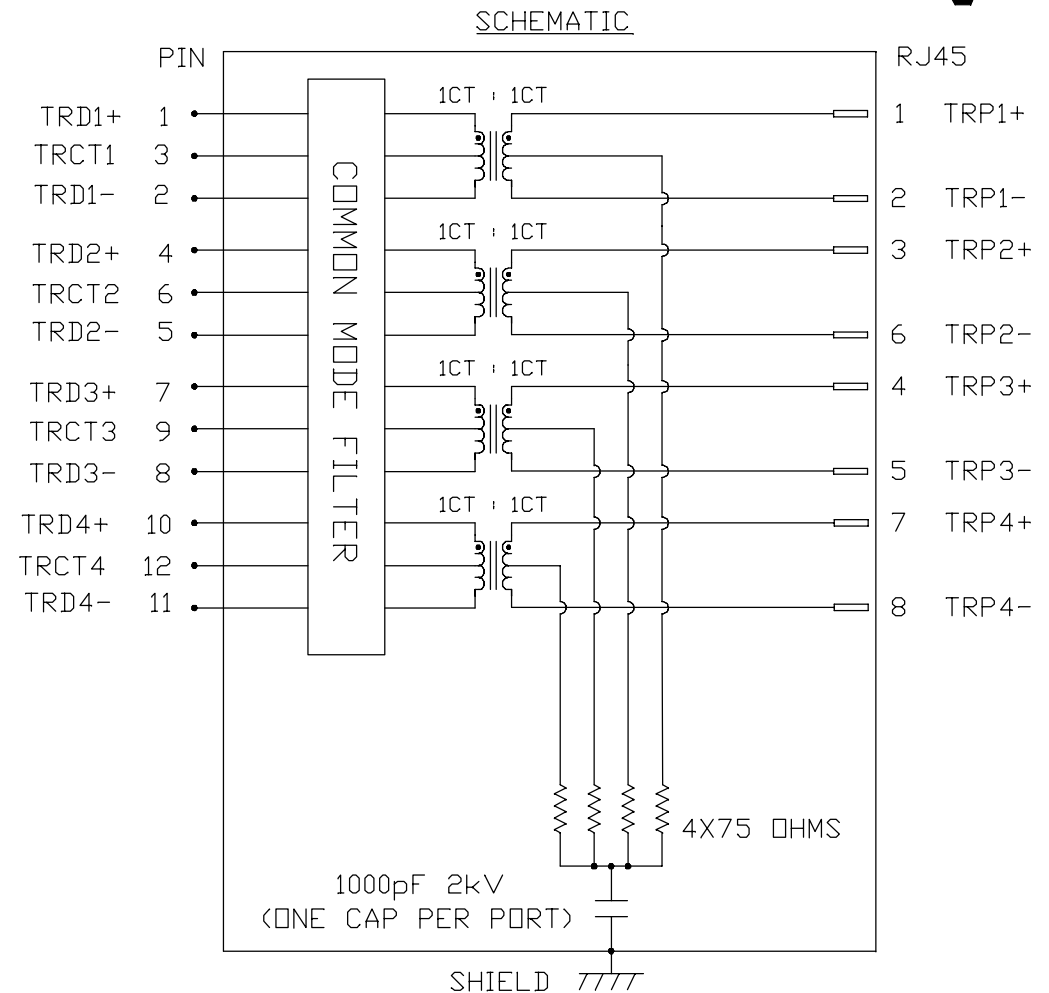
CM TO DM REJ

1MHz - 500MHz -25 dB MIN

HIPOT (Isolation Voltage): 2250VDC

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

OPERATING TEMPERATURE: 0°C TO +70°C.



ORIGINATED BY CHOW WANCHUNG
DATE 2021-08-30
DRAWN BY TANG YUAN
DATE 2021-08-30

TITLE 2X4 10 Gigabit MagJack®
PRESS FIT PATENTED

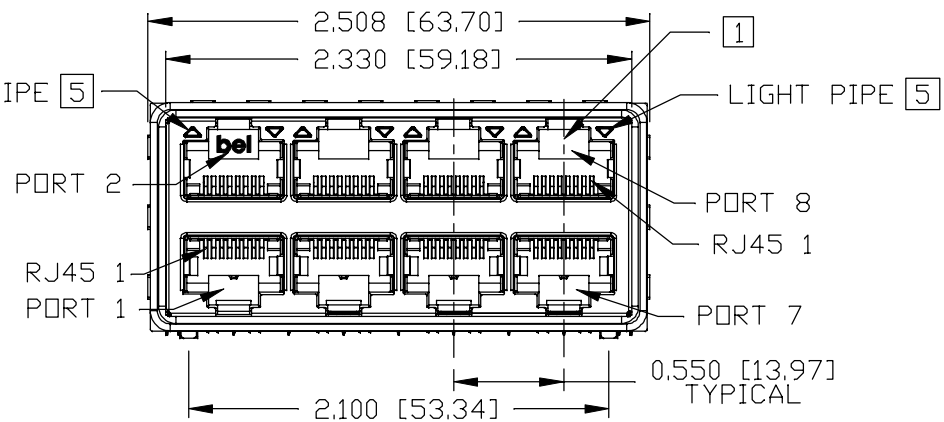
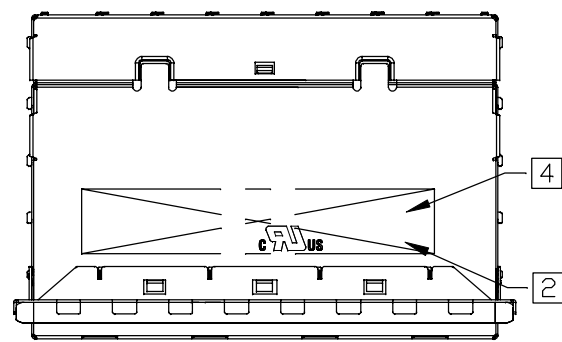
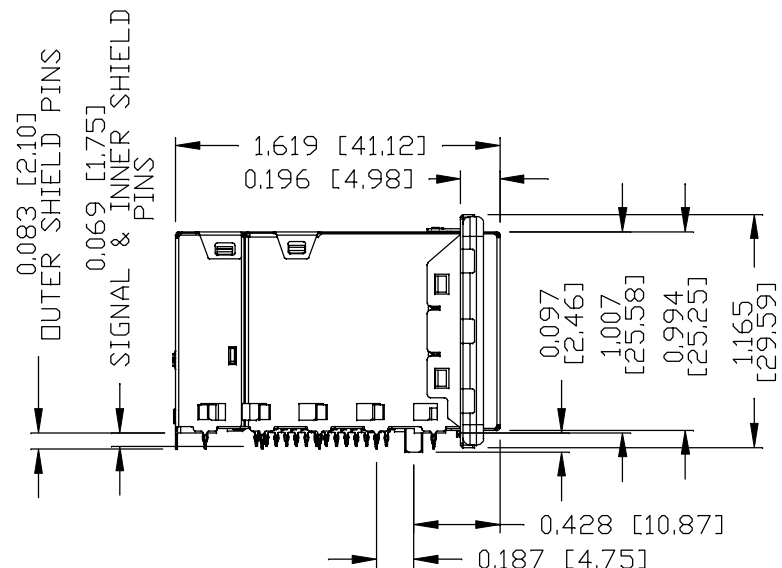
PART NO. / DRAWING NO. G37-88NV-085A
FILE NAME G37-88NV-085A_1.DWG

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

REV. : 1	PAGE : 2
a bel group	

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



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.
- 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.

UL RECOGNIZED - FILE #E169987.

ORIGINATED BY
LI QUANKUN
DATE 2021-08-30

DRAWN BY
OLIVER ZHANG
DATE 2021-08-30

TITLE
2X4 10 Gigabit MagJack®
PRESS FIT
PATENTED

PART NO. / DRAWING NO.
G37-88NV-085A

FILE NAME
G37-88NV-085A_1.DWG

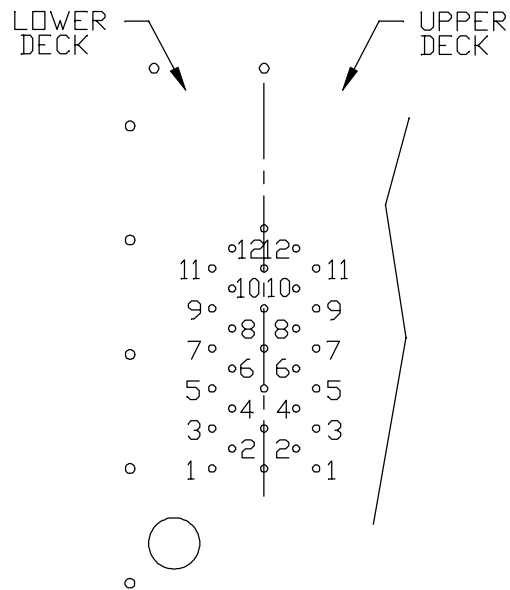
STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.	
.X		UNIT : INCH [mm]	
.XX		SCALE : N/A	
.XXX	±0.010		SIZE : A4

REV. : 1 PAGE : 3

a bel group

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.

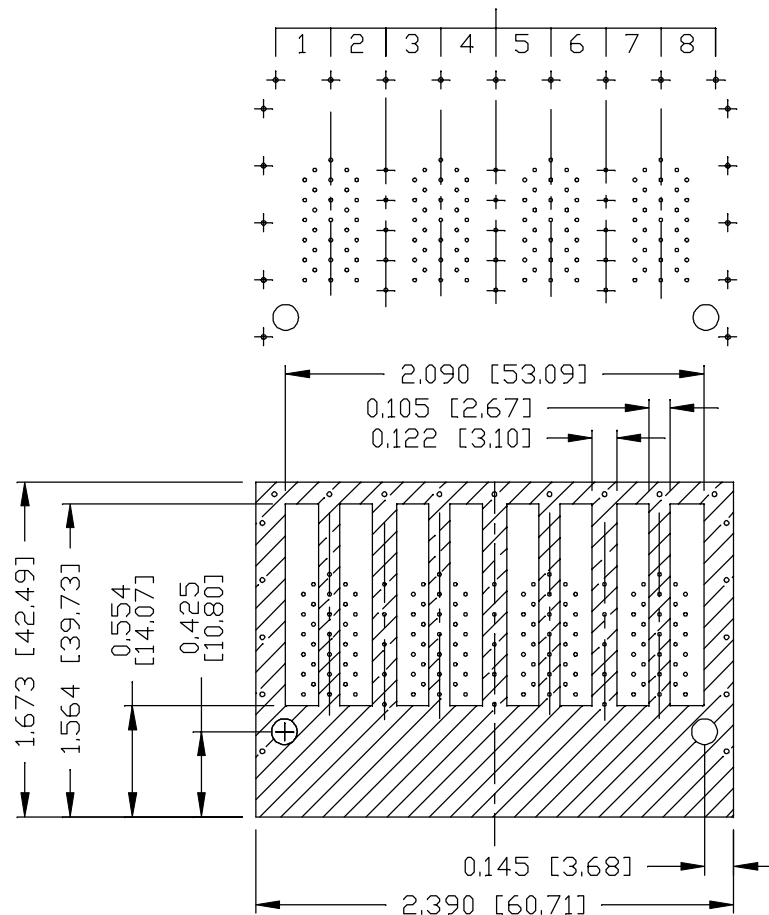
PRELIMINARY



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.

ORIGINATED BY
LI QUANKUN
DATE 2021-08-30

DRAWN BY
OLIVER ZHANG
DATE 2021-08-30

TITLE
2X4 10 Gigabit MagJack®
PRESS FIT
PATENTED

PART NO. / DRAWING NO.
G37-88NV-085A

FILE NAME
G37-88NV-085A_1.DWG

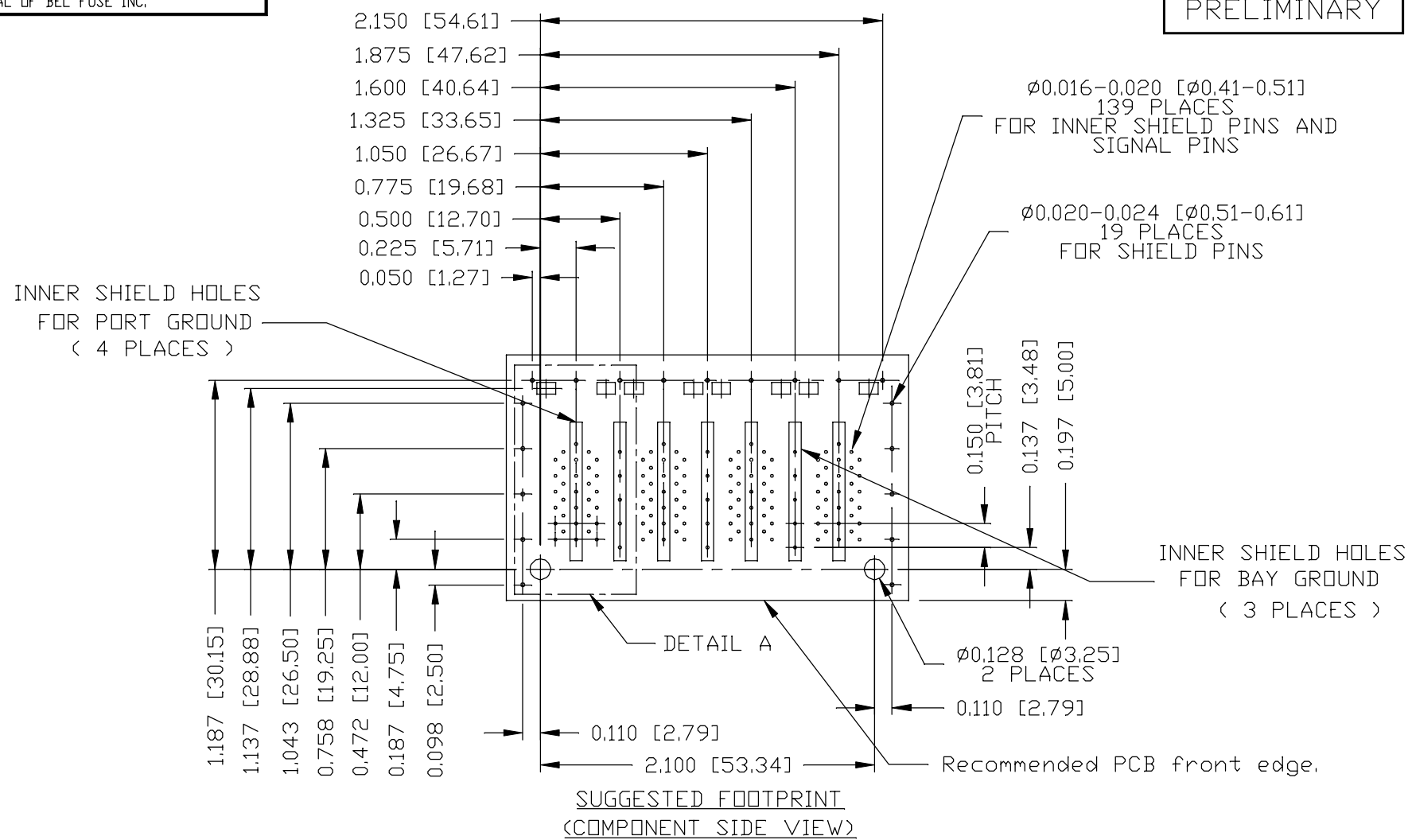
STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	SIZE : A4
±0.004	

REV. : 1 PAGE : 4

a bel group

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

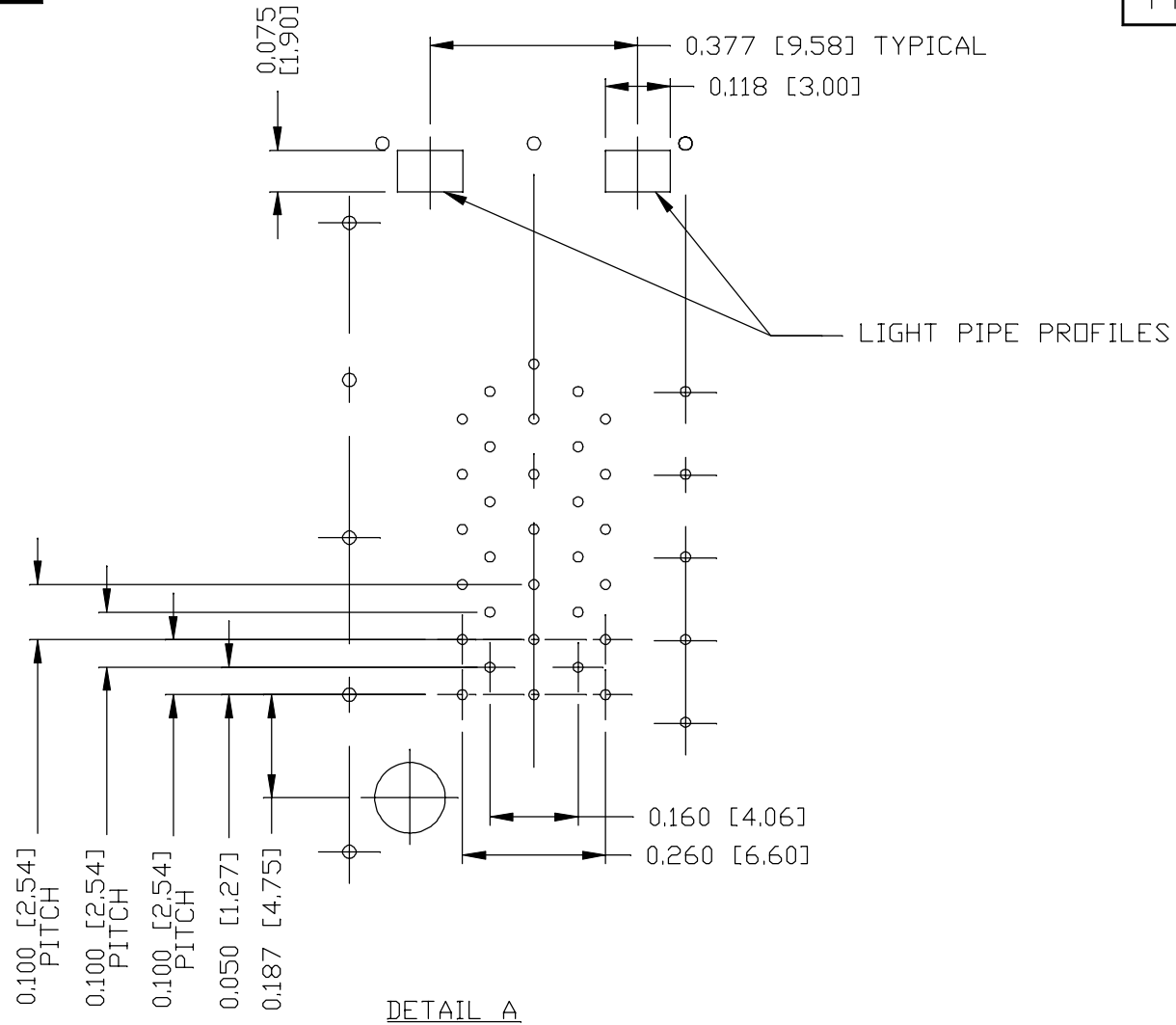


SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

ORIGINATED BY LI QUANKUN DATE 2021-08-30		TITLE 2X4 10 Gigabit MagJack® PRESS FIT PATENTED		PART NO. / DRAWING NO. G37-88NV-085A FILE NAME G37-88NV-085A_1.DWG		STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.004		[] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4		REV. : 1	PAGE : 5
DRAWN BY OLIVER ZHANG DATE 2021-08-30											

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



ORIGINATED BY
LI QUANKUN
DATE 2021-08-30

DRAWN BY
OLIVER ZHANG
DATE 2021-08-30

TITLE
2X4 10 Gigabit MagJack®
PRESS FIT
PATENTED

PART NO. / DRAWING NO.
G37-88NV-085A

FILE NAME
G37-88NV-085A_1.DWG

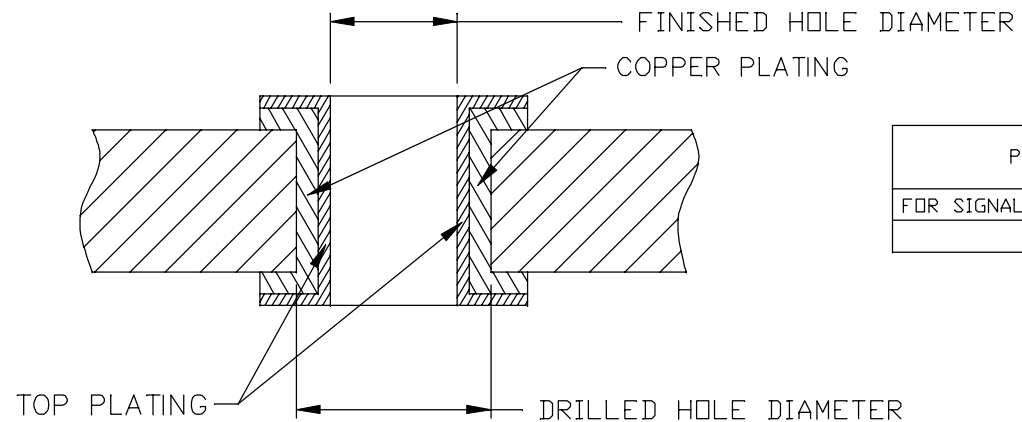
STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	SIZE : A4
±0.004	

REV. : 1 PAGE : 6



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



PLATED-THROUGH-HOLE	DRILLED HOLE DIAMETER	FINISHED HOLE DIAMETER
FOR SIGNAL PINS AND INNER SHIELD PINS	0.022 [0.57]	0.016-0.020 [0.41-0.51]
FOR SHIELD PINS	0.026 [0.66]	0.020-0.024 [0.51-0.61]

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

REV. : 1 PAGE : 7

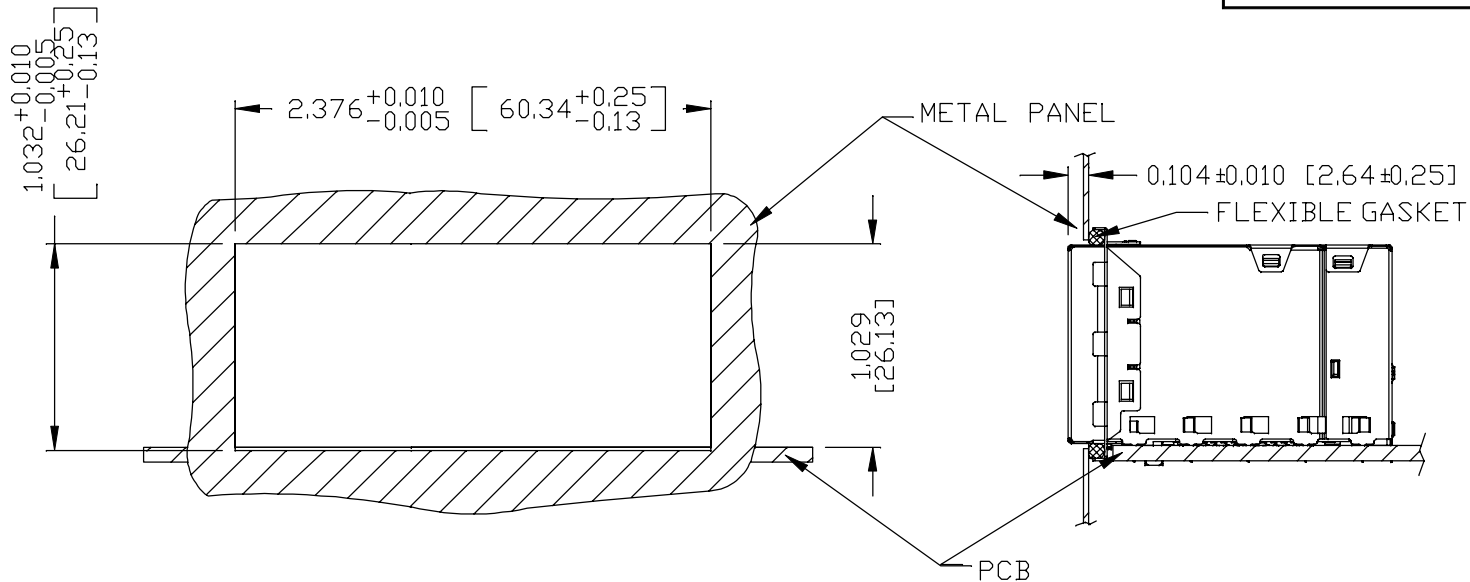
ORIGINATED BY LI QUANKUN DATE 2021-08-30	TITLE 2X4 10 Gigabit MagJack® PRESS FIT PATENTED	PART NO. / DRAWING NO. G37-88NV-085A	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
DRAWN BY OLIVER ZHANG DATE 2021-08-30		FILE NAME G37-88NV-085A_1.DWG	.X	UNIT : INCH [mm]
			.XX	SCALE : N/A
			.XXX	±0.005



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.

SUGGESTED PANEL OPENING

PRELIMINARY



NOTE:

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.

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)

REV. :	1	PAGE :	8
--------	---	--------	---

ORIGINATED BY LI QUANKUN DATE 2021-08-30	TITLE 2X4 10 Gigabit MagJack® PRESS FIT PATENTED	PART NO. / DRAWING NO. G37-88NV-085A FILE NAME G37-88NV-085A_1.DWG	STANDARD DIM.	[] METRIC DIM.
			TOL. IN INCH	AS REF.
			.X	UNIT : INCH [mm]
DRAWN BY OLIVER ZHANG DATE 2021-08-30			.XX	SCALE : N/A
			.XXX	±0.005
			SIZE : A4	

