

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	-18 dB
2MHz	-20 dB
10MHz	-20 dB
100MHz	-20 dB
200MHz	-18 dB
300MHz	-15 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

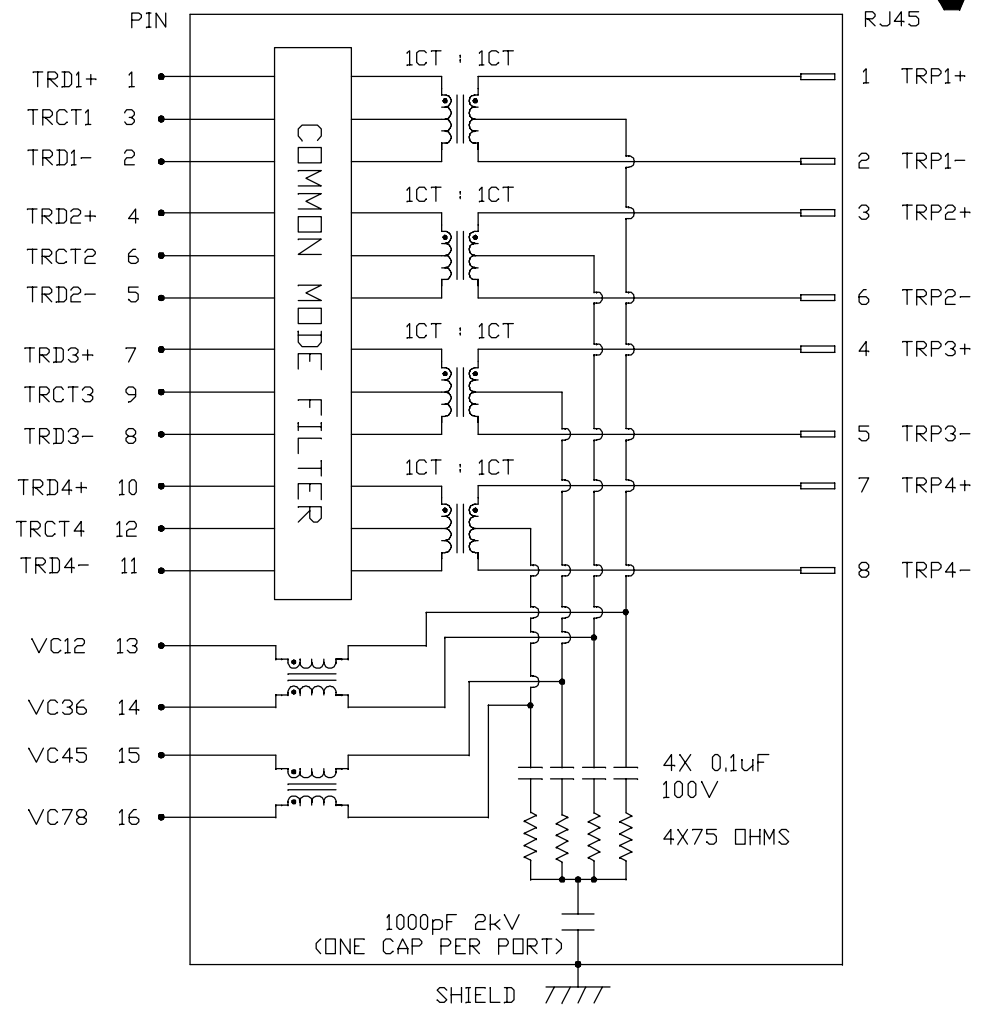
IEEE 802.3 ISOLATION REQUIREMENTS.

BALANCED DC LINE CURRENT 600mA MAX, CONTINUOUS

1.2A MAX, FOR 200 MILLISECONDS

OPERATING TEMPERATURE: 0°C TO +70°C.

SCHEMATIC



ORIGINATED BY
CHOW WANCHUNG
DATE 2022-01-14

DRAWN BY
TANG YUAN
DATE 2022-01-14

TITLE
2X4 10 Gigabit MagJack®
4PPoE
PATENTED

PART NO. / DRAWING NO.
G28-88NE-161

FILE NAME
G28-88NE-161_1.DWG

STANDARD DIM. [] METRIC DIM.
TOL. IN INCH AS REF.

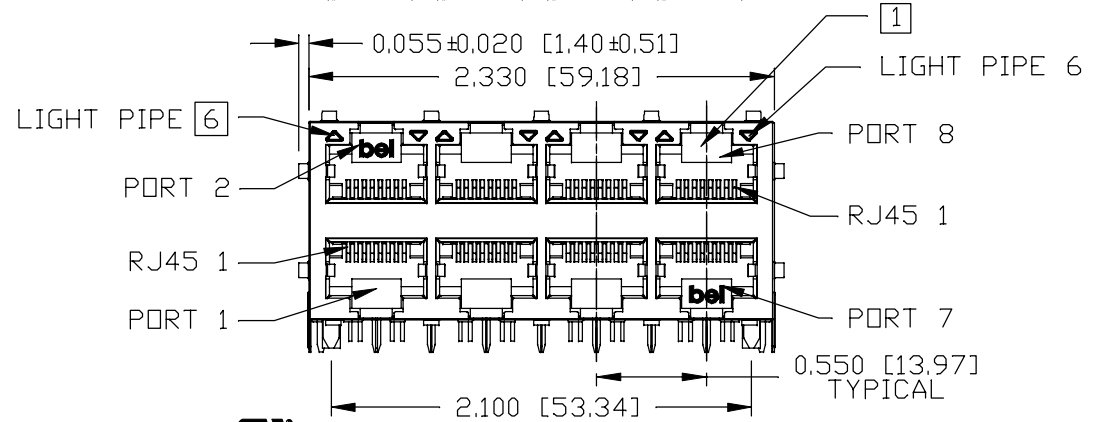
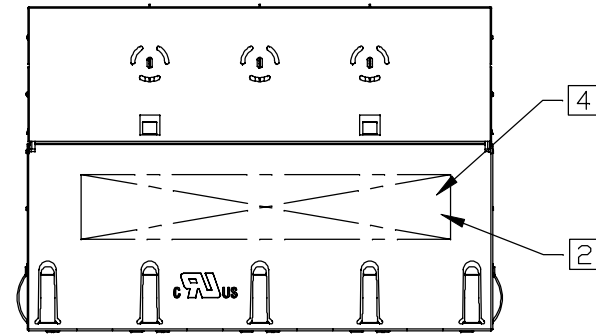
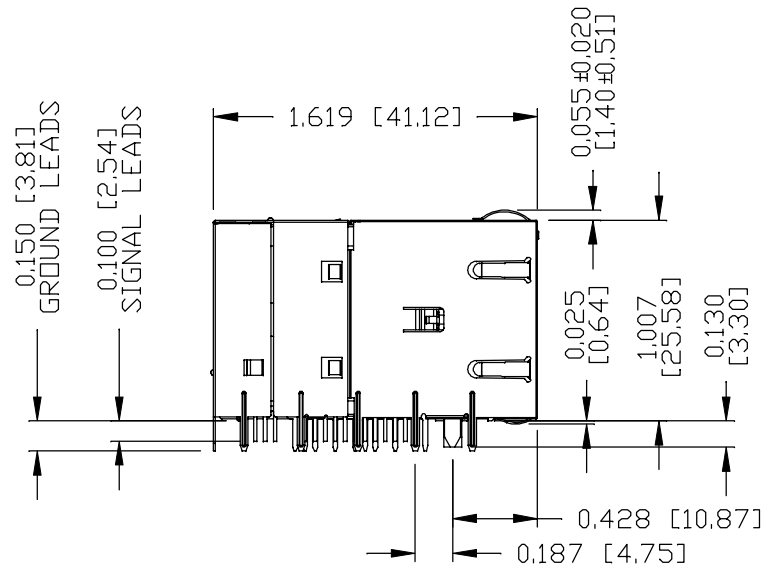
.X UNIT : INCH [mm]
.XX SCALE : N/A
.XXX SIZE : A4

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 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)

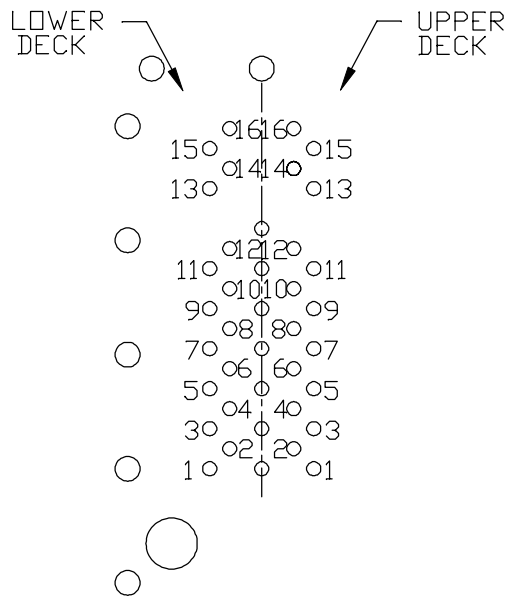
- [1] JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- [2] MARK PART WITH MFG LOGO, NAME, PART NUMBER AND DATE CODE.
- 3. THE PRODUCT IS RoHS COMPLIANT.

- 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. 7,924,130 AND U.S. PAT. 7,123,117.
 - 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 ANTON LIAD DATE 2022-01-14		TITLE 2X4 10 Gigabit MagJack® 4PPoE PATENTED		PART NO. / DRAWING NO. G28-88NE-161		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.		REV. : 1 PAGE : 3	
DRAWN BY LI QUANKUN DATE 2022-01-14				FILE NAME G28-88NE-161_1.DWG		.X .XX .XXX		UNIT : INCH [mm] SCALE : N/A			
						#0.010		SIZE : A4			

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.

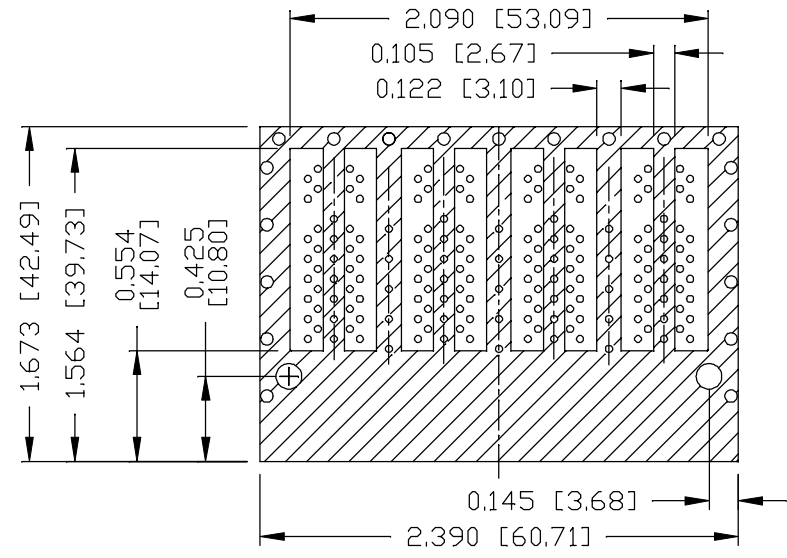
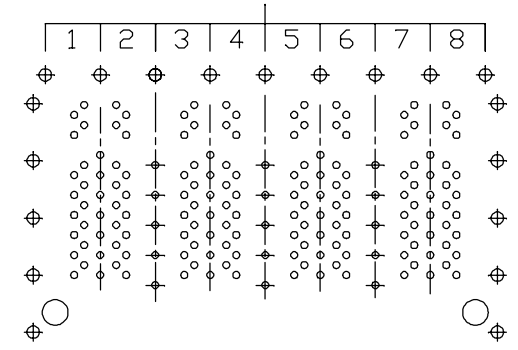
PRELIMINARY



PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

10	TRD4+		
9	TRCT3		
8	TRD3-		
7	TRD3+		
6	TRCT2	16	VC78
5	TRD2-	15	VC45
4	TRD2+	14	VC36
3	TRCT1	13	VC12
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
ANTON LIAD
DATE 2022-01-14

DRAWN BY
LI QUANKUN
DATE 2022-01-14

TITLE
2X4 10 Gigabit MagJack®
4PPoE
PATENTED

PART NO. / DRAWING NO.
G28-88NE-161

FILE NAME
G28-88NE-161_1.DWG

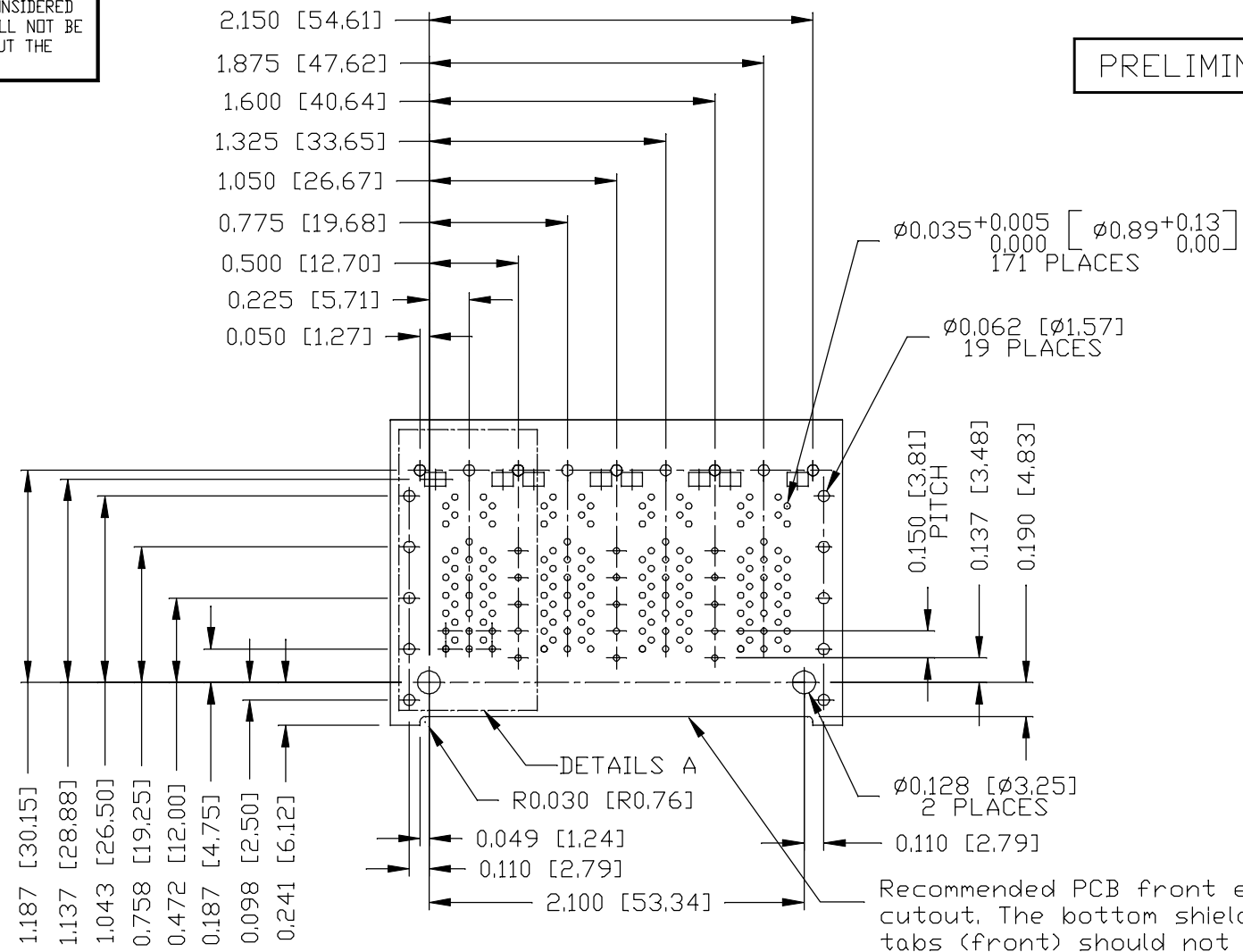
STANDARD DIM.	[] METRIC DIM.
TOL. IN INCH	AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	±0.004
	SIZE : A4

REV. : 1 PAGE : 4



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
ANTON LIAD
DATE 2022-01-14
DRAWN BY
LI QUANKUN
DATE 2022-01-14

TITLE
2X4 10 Gigabit MagJack®
4PPoE
PATENTED

PART NO. / DRAWING NO.
G28-88NE-161
FILE NAME
G28-88NE-161_1.DWG

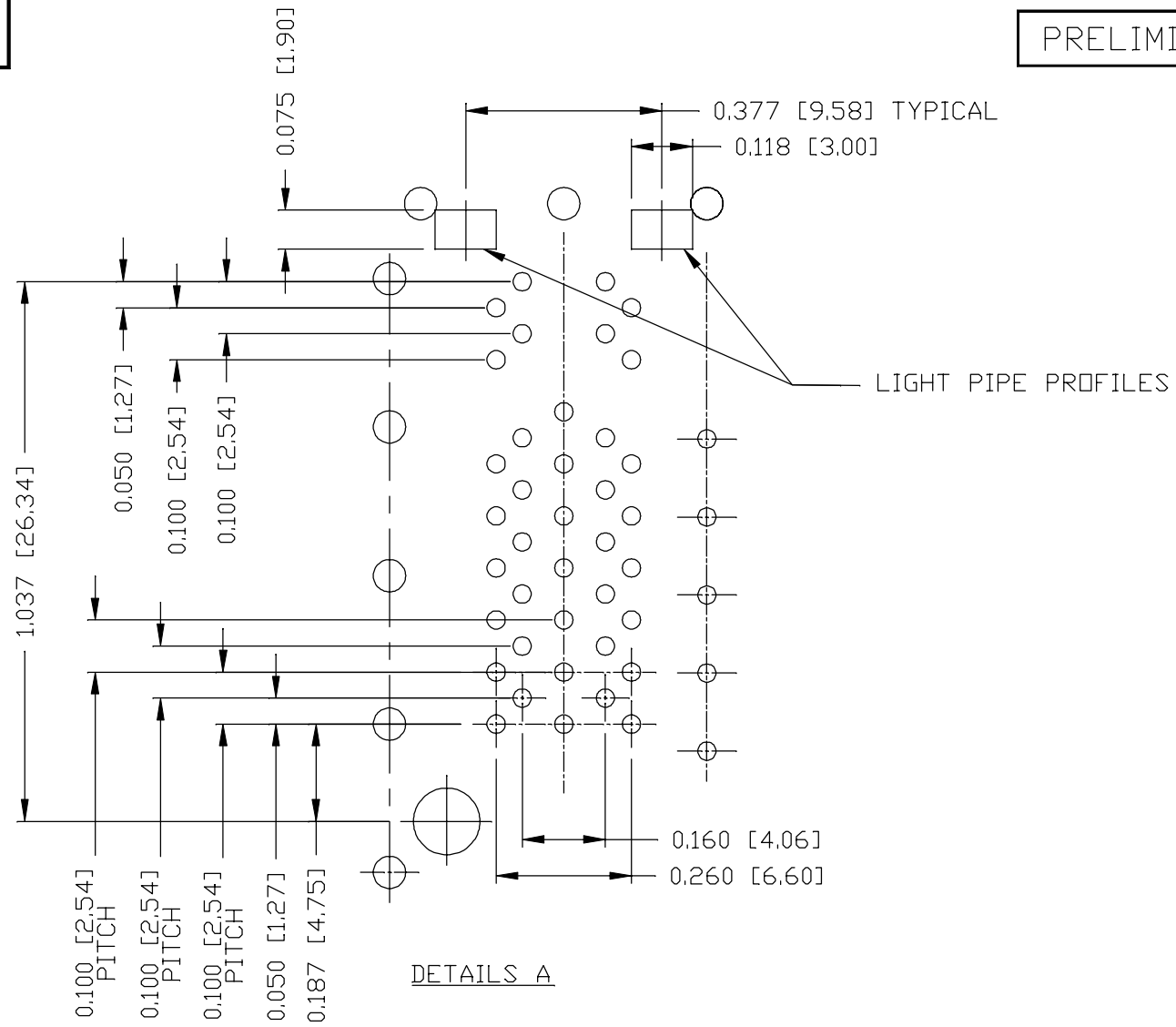
STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX ±0.004	SIZE : A4

REV. : 1 PAGE : 5



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
ANTON LIAD
DATE 2022-01-14
DRAWN BY
LI QUANKUN
DATE 2022-01-14

TITLE
2X4 10 Gigabit MagJack®
4PPoE
PATENTED

PART NO. / DRAWING NO.
G28-88NE-161
FILE NAME
G28-88NE-161_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
----------	----------

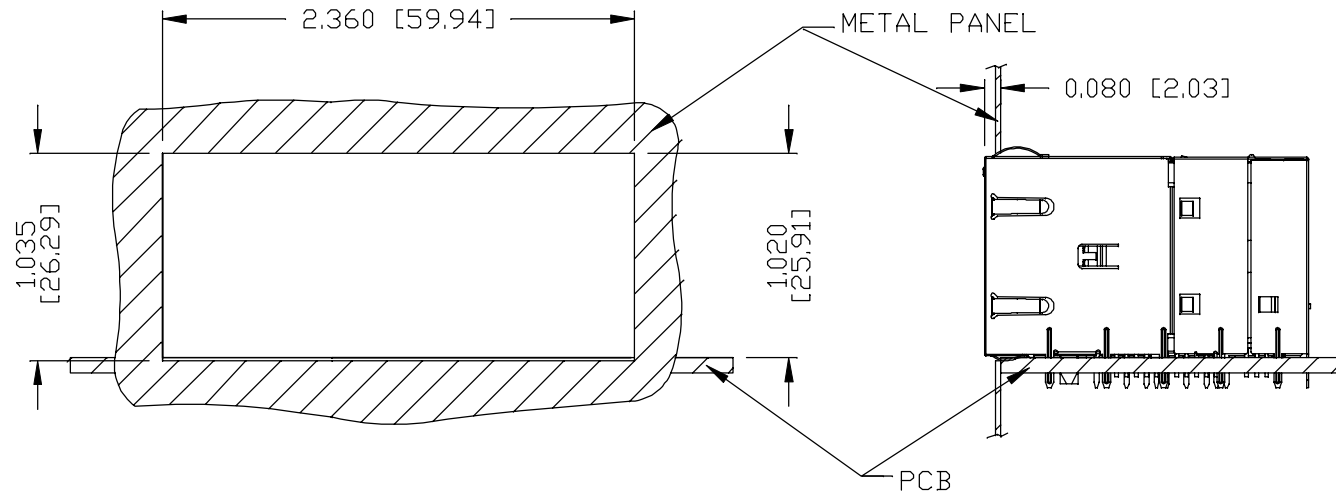
a bel group

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 PANEL OPENING



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-L1 (TOP)


0200M9999-N9 (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 :	7
		bel MAGNETIC SOLUTIONS a bel group	

ORIGINATED BY ANTON LIAD DATE 2022-01-14	TITLE 2X4 10 Gigabit MagJack® 4PPoE PATENTED	PART NO. / DRAWING NO. G28-88NE-161	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
DRAWN BY LI QUANKUN DATE 2022-01-14		FILE NAME G28-88NE-161_1.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A SIZE : A4
		±0.005	