

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

TURNS RATIO

	1CT : 1CT	1CT : 1CT	1CT : 1CT	1CT : 1CT
TP1	-0.8 dB	-1.0 dB	-1.2 dB	-2.0 dB
TP2	-1.0 dB	-1.2 dB	-2.0 dB	-3.0 dB
TP3	-1.2 dB	-2.0 dB	-3.0 dB	-16 dB
TP4	-2.0 dB	-3.0 dB	-16 dB	-16+10LOG (F/40) dB
				-6+30LOG (F/400) dB
				-30 dB 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)

1MHz - 40MHz	-16 dB
40MHz - 400 MHz	-16+10LOG (F/40) dB
400MHz - 500 MHz	-6+30LOG (F/400) dB
CM TO CM REJ	-30 dB MIN
1MHz - 500MHz	-30 dB MIN
CM TO DM REJ	-30 dB MIN
1MHz - 500MHz	2250VDC

HIPOT (Isolation Voltage):

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

LED 1 & 2

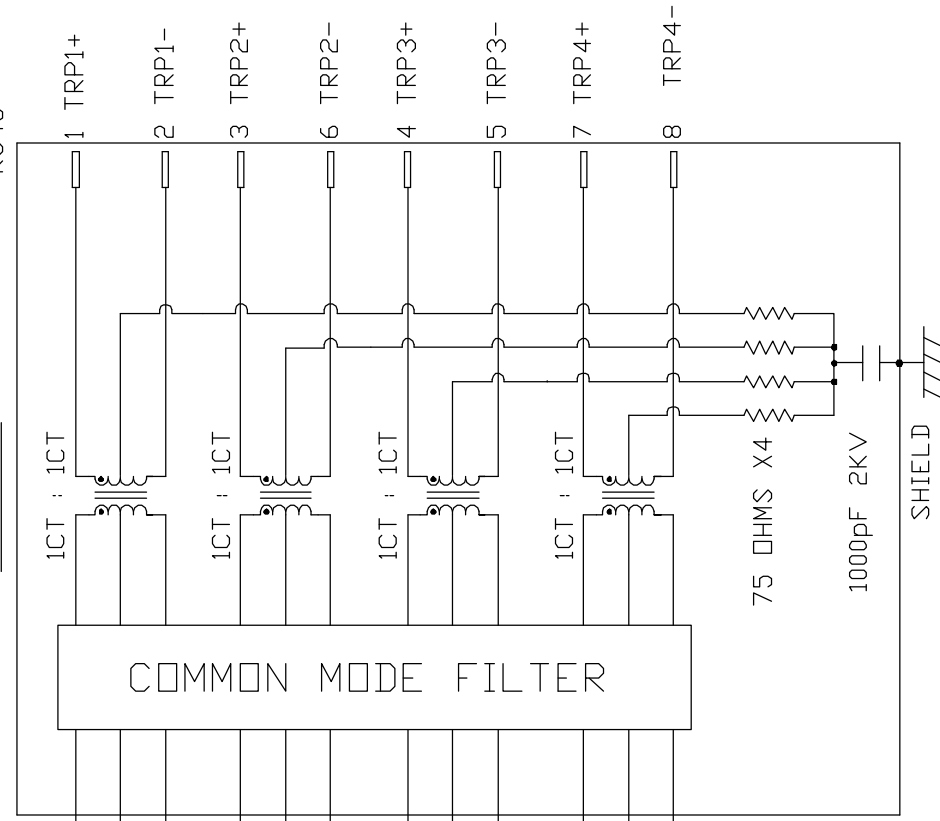
VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
YELLOW 2.1V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.
YELLOW 590nm TYP.

OPERATING TEMPERATURE: 0°C TO +85°C.

SCHEMATIC

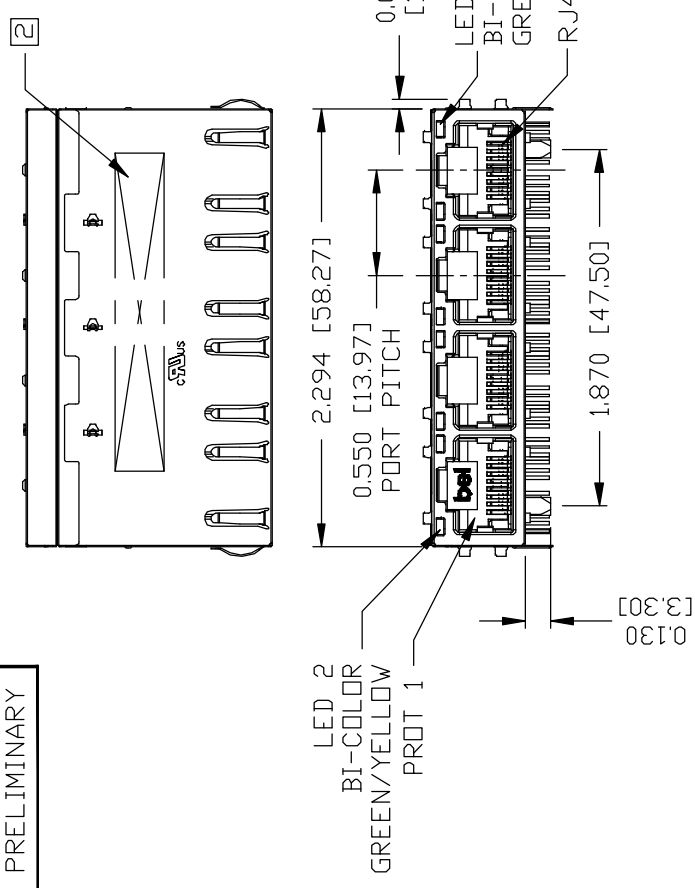
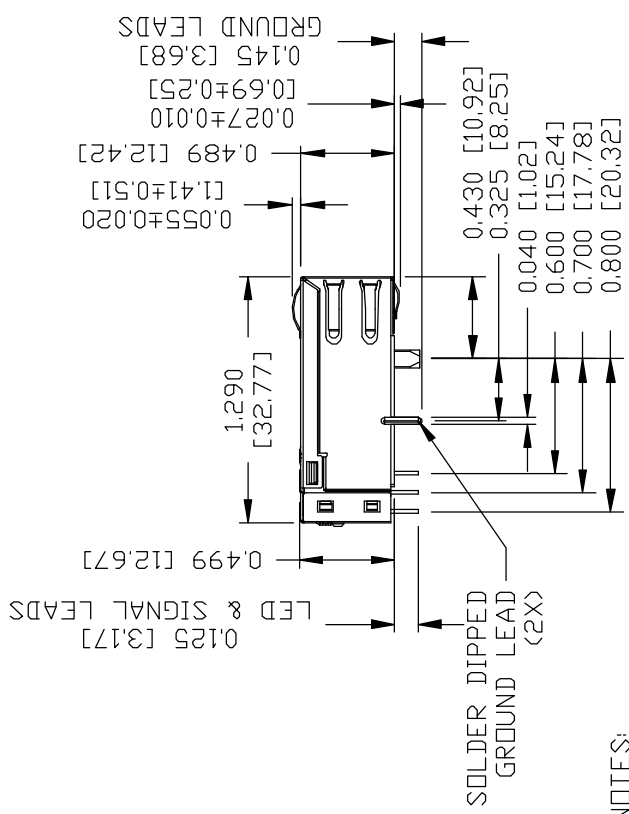
RJ45



<p>ORIGINATED BY CHOW WANCHUNG</p> <p>DATE 2023-08-04</p> <p>DRAWN BY YI LIU</p> <p>DATE 2023-08-04</p>		<p>TITLE 1X4 10 Gigabit MagJack® EXTENDED TEMPERATURE PATENTED</p>		<p>PART NO. / DRAWING NO. G09-433A-019-L</p> <p>FILE NAME G09-433A-019-L_1.DWG</p>		<p>STANDARD DIM. TOL. IN INCH .X .XX .XXX</p>		<p>[] METRIC DIM. AS REF.</p> <p>UNIT : INCH [mm] SCALE : N/A SIZE : A4</p>		<p>REV. : 1</p>	<p>PAGE : 2</p>
<p>a bel group</p>											

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



2. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND "PATENTED" MARKING.
3. THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE U.S. PAT. 7,429,195 AND U.S. PAT. 7,924,130 AND U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.
4. THE PRODUCT IS RoHS COMPLIANT & HALOGEN FREE.
5. THE AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.
6. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX. AND 10 SECONDS MAX.

NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PA, BLACK
- FLAMMABILITY RATING UL 94V-0
- CONTACTS PLATING: 50 MICRO-INCH HARD GOLD PLATED OR EQUIVALENT.
- PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH. 100 MICRO-INCH MIN MATTE TIN. PINS ARE SOLDER DIPPED.
- METAL SHIELD: STAINLESS STEEL
- 1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.

USUL RECOGNIZED - FILE # E169987.

ORIGINATED BY TONY YUAN	DATE 2023-08-04
DRAWN BY TOWER YU	DATE 2023-08-04

TITLE
1X4 10 Gigabit MagJack®
EXTENDED TEMPERATURE
PATENTED

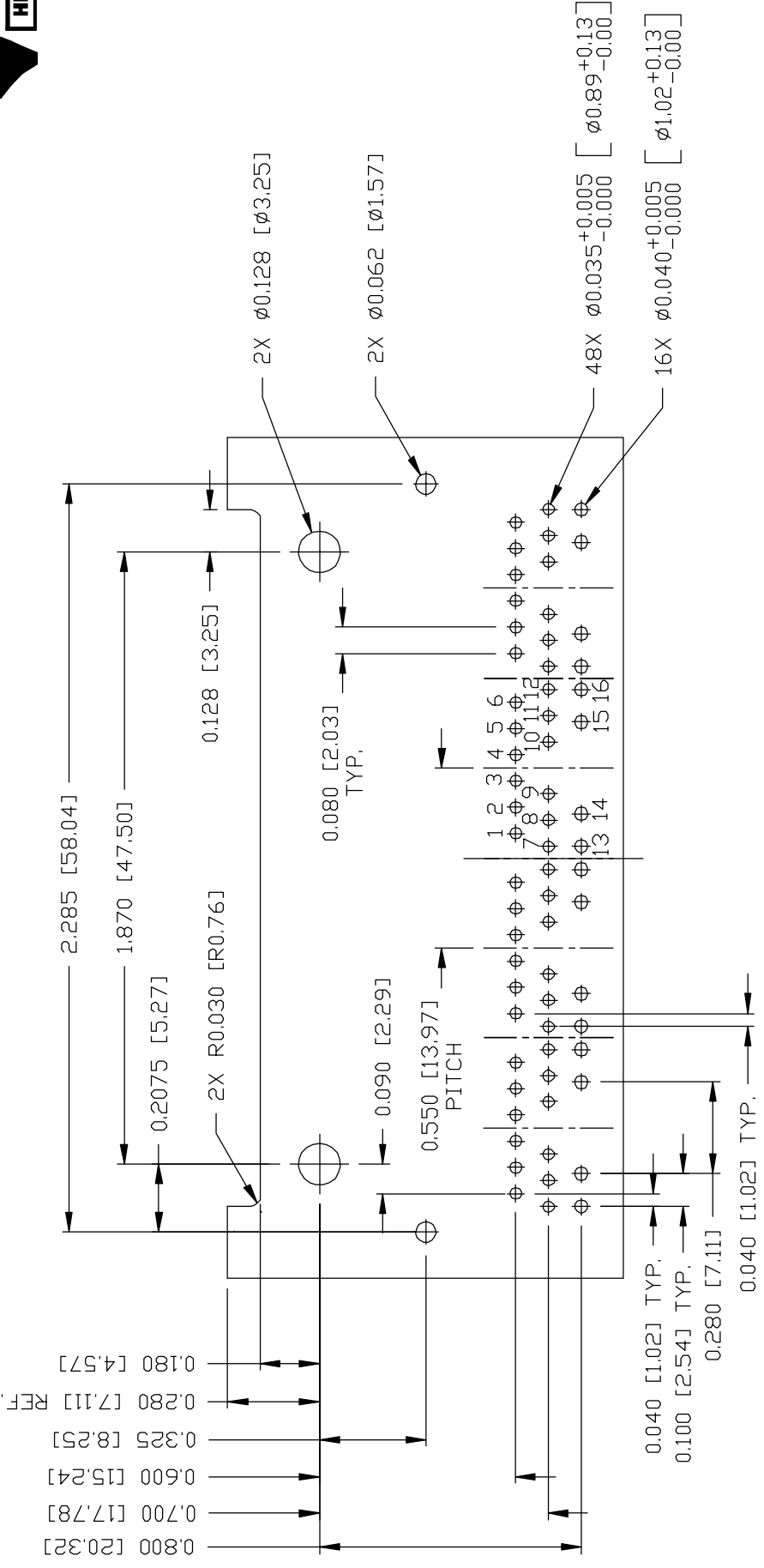
PART NO. / DRAWING NO. G09-433A-019-L
FILE NAME G09-433A-019-L_1.DWG

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



RECOMMENDED PCB FOOTPRINT
(COMPONENT SIDE VIEW)

REV. :	1	PAGE :	4

PART NO. / DRAWING NO.	G09-433A-019-L	STANDARD DIM.	[] METRIC DIM. AS REF.
FILE NAME	G09-433A-019-L_1.DWG	TOL. IN INCH	.X .XX .XXX
		UNIT : INCH [mm]	SCALE : N/A
		SIZE : A4	

TITLE	1X4 10 Gigabit MagJack® EXTENDED TEMPERATURE PATENTED
-------	---

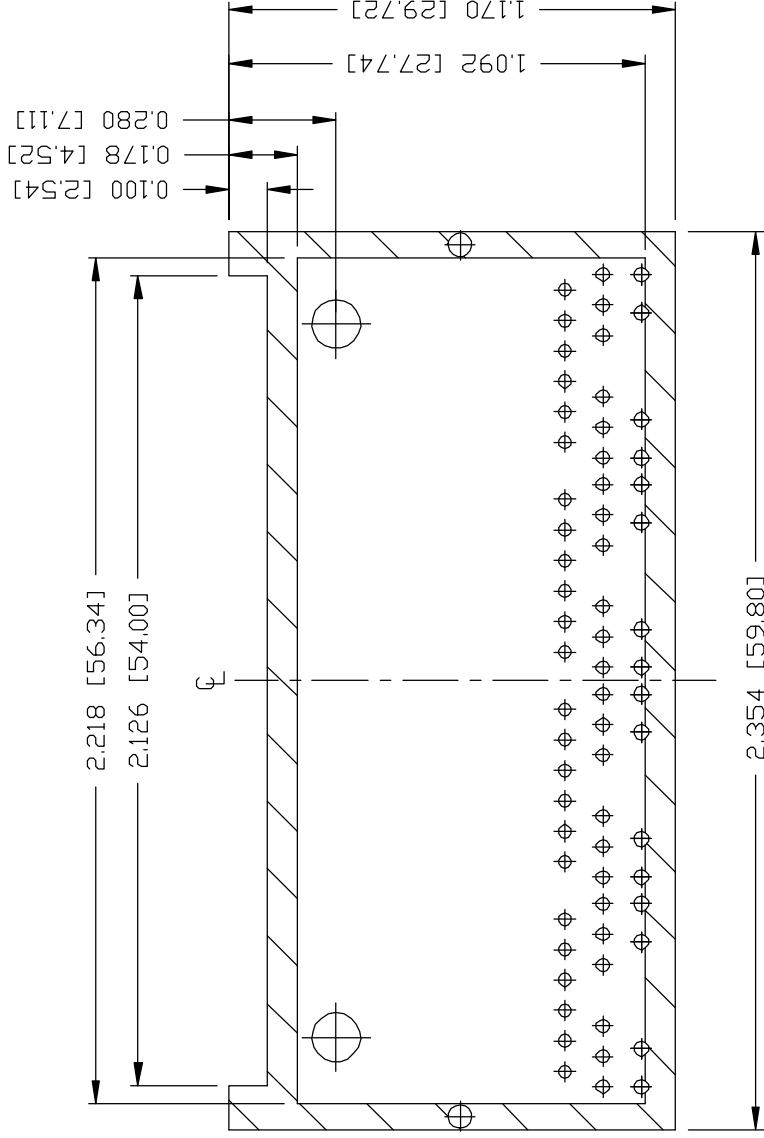
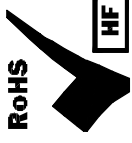
ORIGINATED BY	TONY YUAN
DATE	2023-08-04
DRAWN BY	TOWER YU
DATE	2023-08-04

This document is electronically generated. This is a controlled copy if used internally.

DC002(2)120214

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

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

ORIGINATED BY
TONY YUAN
DATE 2023-08-04
DRAWN BY
TOWER YU
DATE 2023-08-04

TITLE
1X4 10 Gigabit MagJack®
EXTENDED TEMPERATURE
PATENTED

PART NO. / DRAWING NO.
G09-433A-019-L
FILE NAME
G09-433A-019-L_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 : 5

