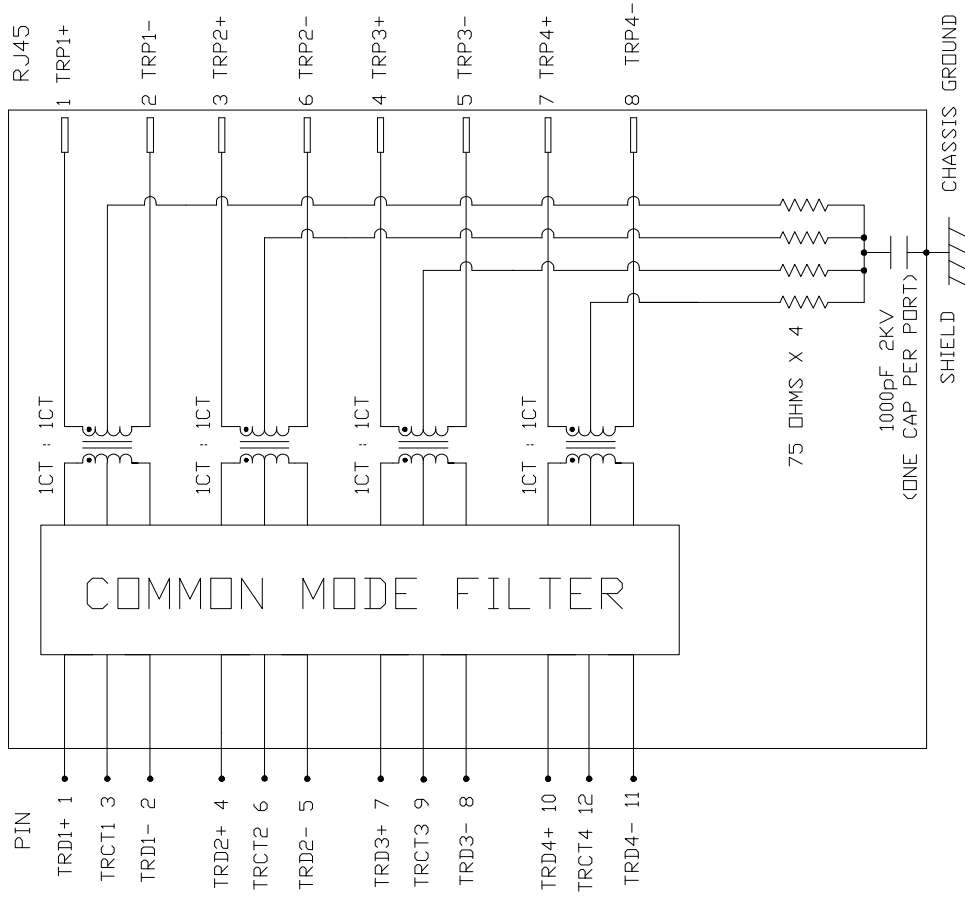


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RoHS

PRELIMINARY

SCHEMATIC



#### ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO	1CT : 1CT	16 dB MIN
	1CT : 1CT	16-10LOG<f/40MHZ> dB
	1CT : 1CT	6-30LOG<f/400MHZ> dB
	1CT : 1CT	-25 dB MIN
INS. LOSS (MAX)	1MHZ TO 20MHZ	-0.8 dB
	50MHZ	-1.0 dB
	200MHZ	-1.2 dB
	400MHZ	-2.0 dB
RET. LOSS (MIN) @ 100 OHMS	1MHZ < f < 40MHZ	-3.0 dB
	40MHZ < f < 400MHZ	
	400MHZ < f < 500MHZ	
	CM TO CM REJ	
CM TO DM REJ	1MHZ - 500MHZ	-25 dB MIN
		-30 dB MIN
HIPOT (Isolation Voltage): 2250VDC		
100% OF PRODUCTION TESTED TO COMPLY WITH		
IEEE 802.3 ISOLATION REQUIREMENTS.		
OPERATING TEMPERATURE: -40°C TO +85°C.		

ORIGINATED BY  
CHOW WANCHUNG

DATE 2023-08-11

DRAWN BY  
TERRY LIN

DATE 2023-08-11

TITLE

2X4 10 Gigabit MagJack®  
PRESS FIT  
PATENTED

PART NO. / DRAWING NO.

G37-88NV-010B

FILE NAME

G37-88NV-010B\_1.DWG

STANDARD DIM.  
TOL. IN INCH

.X

.XX

.XXX

[ ] METRIC DIM.  
AS REF.

UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

REV. :

1

PAGE :

2



MAGNETIC  
SOLUTIONS

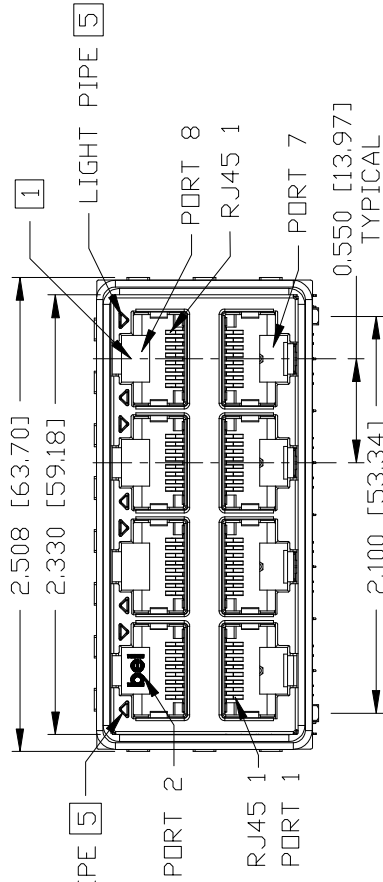
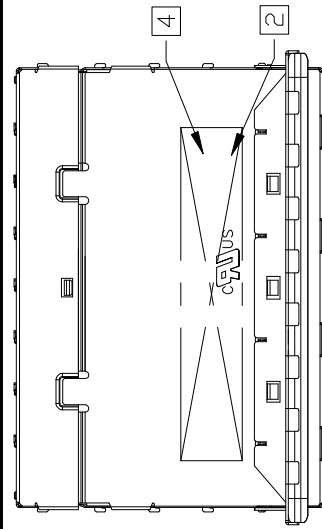
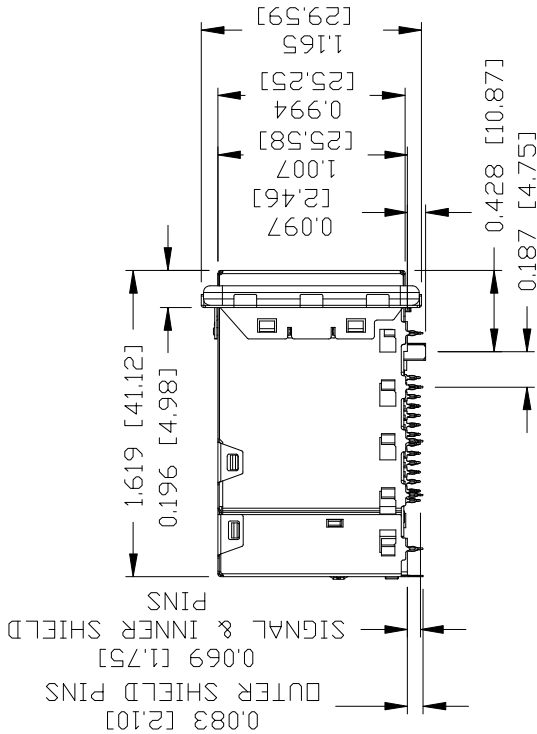
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PRELIMINARY



**UL** RECOGNIZED - FILE #E169987.

- 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. [7] DATUM C AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
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.

REV. : 1 PAGE : 3

ORIGINATED BY TONY YUAN DATE 2023-08-11		TITLE  2X4 10 Gigabit MagJack®  PRESS FIT  PATENTED	PART NO. / DRAWING NO. G37-88NV-010B		STANDARD DIM. TOL. IN INCH AS REF.		[ ] METRIC DIM.	
DRAWN BY JARRY YE DATE 2023-08-11			FILE NAME G37-88NV-010B_1.DWG		UNIT : INCH [mm]		SCALE : N/A	
					.X .XX .XXX ±0.010		SIZE : A4	
					<b>MAGNETIC SOLUTIONS</b>  a bel group			

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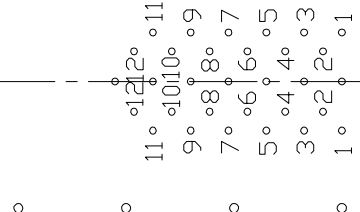
PRELIMINARY

RoHS



LOWER DECK

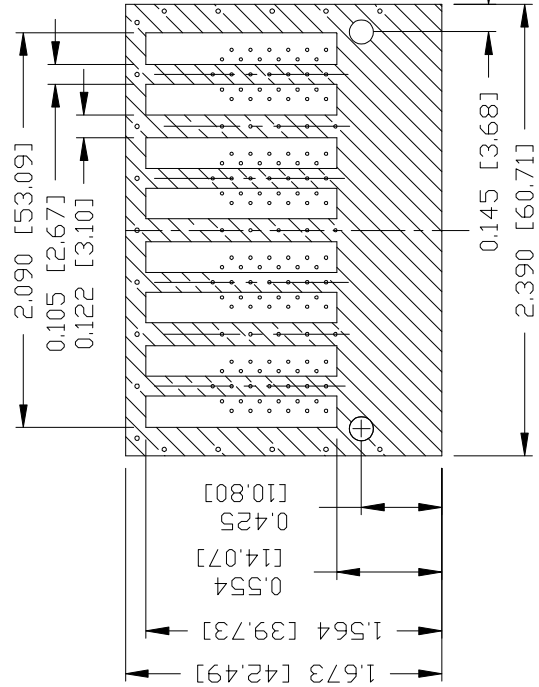
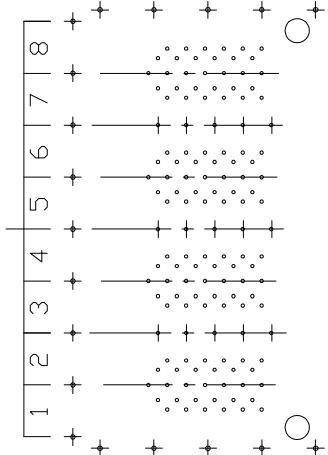
UPPER DECK



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+

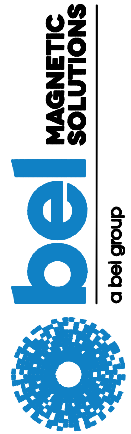
PORT ASSIGNMENT  
(COMPONENT SIDE VIEW)



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

ORIGINATED BY TONY YUAN DATE 2023-08-11 DRAWN BY JARRY YE DATE 2023-08-11	TITLE 2X4 10 Gigabit MagJack® PRESS FIT PATENTED		PART NO. / DRAWING NO. G37-88NV-010B		STANDARD DIM. TOL. IN INCH [ ] METRIC DIM. AS REF.	
	FILE NAME G37-88NV-010B_1.DWG		UNIT : INCH [mm] SCALE : N/A		[ ] METRIC DIM. AS REF.	

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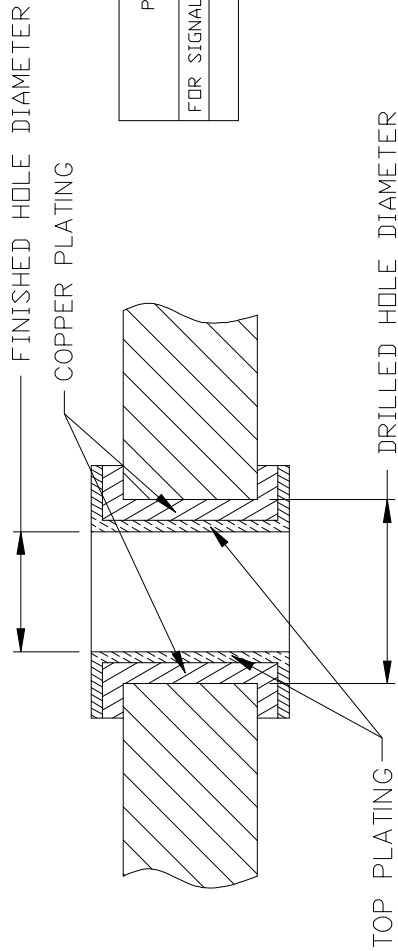


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PRELIMINARY



PLATED-THROUGH-HOLE CROSS-SECTION

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

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 2023-08-11 DRAWN BY JARRY YE DATE 2023-08-11	TITLE 2X4 10 Gigabit MagJack® PRESS FIT PATENTED	PART NO. / DRAWING NO. G37-88NV-010B FILE NAME G37-88NV-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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