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**DOCUMENT / PART NO.:** G37-D8NV-010N

TITLE: PRODUCT SPECIFICATION

ISSUE			DES	CRIPT	ION O	F CHA	NGE			F	REVIE	WED B	Y	APP	ROVED	BY	EC	N#
1	PRELIMINARY							TONY YUAN										
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# PRFI IMINARY

# **RoHS**

#### ELECTRICAL CHARACTERISTICS @ 25°C

TP1 TP2 TP3 TP4	1CT : 1CT 1CT : 1CT 1CT : 1CT 1CT : 1CT
INS. LOSS (MAX)  1MHz TO 20MHz  50MHz  200MHz  400MHz  500MHz	-0.8 dB -1.0 dB -1.2 dB -2.0 dB -3.0 dB

### RET, LOSS (MIN) @ 100 OHMS

1MHz < f < 40MHz 16 dB MIN

40MHz < f <400MHz  $16-10L\Box G(f/40MHz) dB$ 400MHz < f <500MHz  $6-30L\Box G(f/400MHz) dB$ 

CM TO CM REJ

TURNS RATIO

1MHz - 500MHz -25 dB MIN

CM TO DM REJ

1MHz - 500MHz -30 dB MIN

HIPOT (Isolation Voltage): 2250VDC 100% OF PRODUCTION TESTED TO COMPLY WITH

IEEE 802.3 ISDLATION REQUIREMENTS.

OPERATING TEMPERATURE: -40°C TO +85°C.

TITLE

# SCHEMATIC RJ45 PIN 1CT : 1CT TRD1+ 1 ← 1 TRP1+ TRCT1 3 ← TRD1- 2 ← ⊐l2 TRP1-1CT : 1CT TRD2+ 4• ⇒|3 TRP2+ TRCT2 6 ← TRD2- 5 ← =|6 TRP2- $\leq$ 1CT : 1CT ⊐|4 TRP3+ TRD3+ 7 •─ TRCT3 9 ← $\neg \neg$ 5 TRP3-TRD3- 8 •-1CT : 1CT 7 TRP4+ TRD4+ 10 •─ TRCT4 12 - $\pi$ TRD4- 11 •─ 8 TRP4-75 □HMS X 4 ≷ 1000pF 2KV (ONE CAP PER PORT) SHIELD CHASSIS GROUND

ORIGINATED BY BILL LIU DATE 2024-07-18 DRAWN BY TERRY LIN

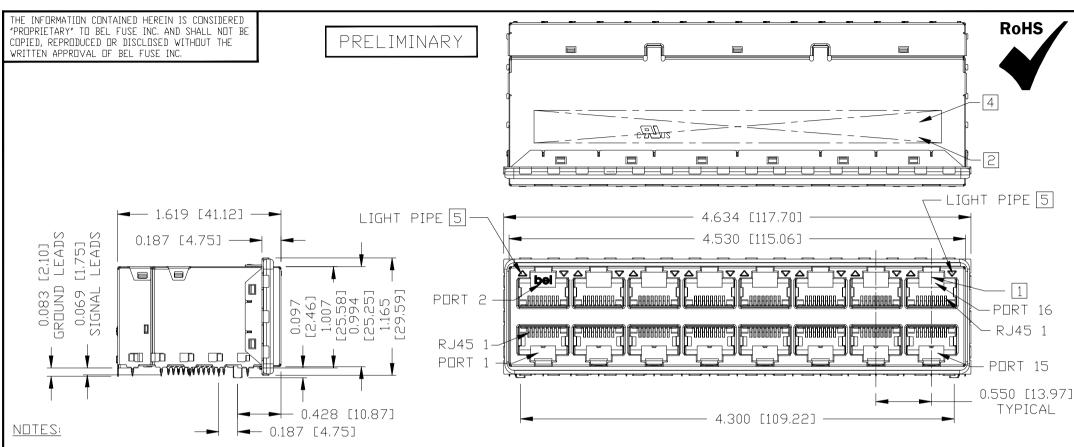
DATE 2024-07-18

2X8 10 Gigabit MagJack® PRESS FIT PATENTED

PART NO. / DRAWING NO. STANDARD DIM. [ ] METRIC DIM. TOL. IN INCH AS REF. G37-D8NV-010N UNIT : INCH [mm] FILE NAME SCALE : N/A .XX G37-D8NV-010N 1.DWG + SIZE : A4

XXX.





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 & 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. RECOMMNENDED MINIMUM CUSTOMER PCB THICKNESS IS 0.080 INCH.

7. DATUM C AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

CRUS UL RECOGNIZED - FILE #E169987.

ORIGINATED BY
TONY YUAN
DATE 2027-07-18

DRAWN BY
RICK LI
DATE 2024-07-18

2X8 10 Gigabit MagJack® PRESS FIT PATENTED 

 PART NO. / DRAWING NO.
 STANDARD DIM.
 [ ] METRIC DIM.

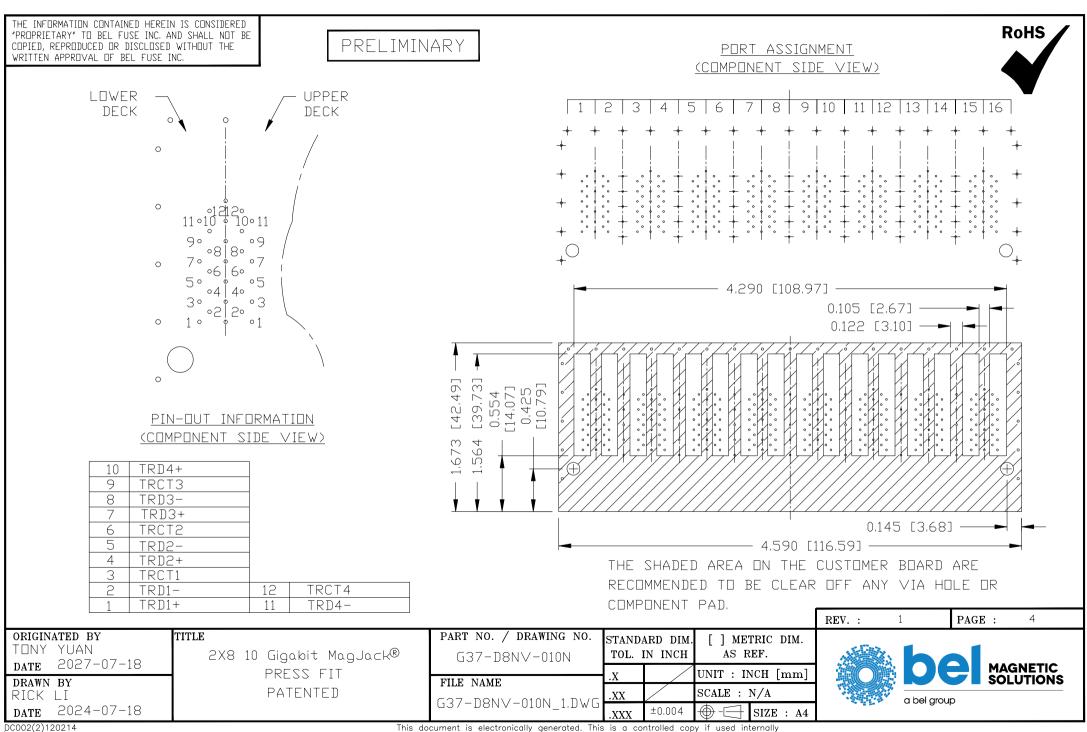
 G37-D8NV-010N
 TOL. IN INCH
 AS REF.

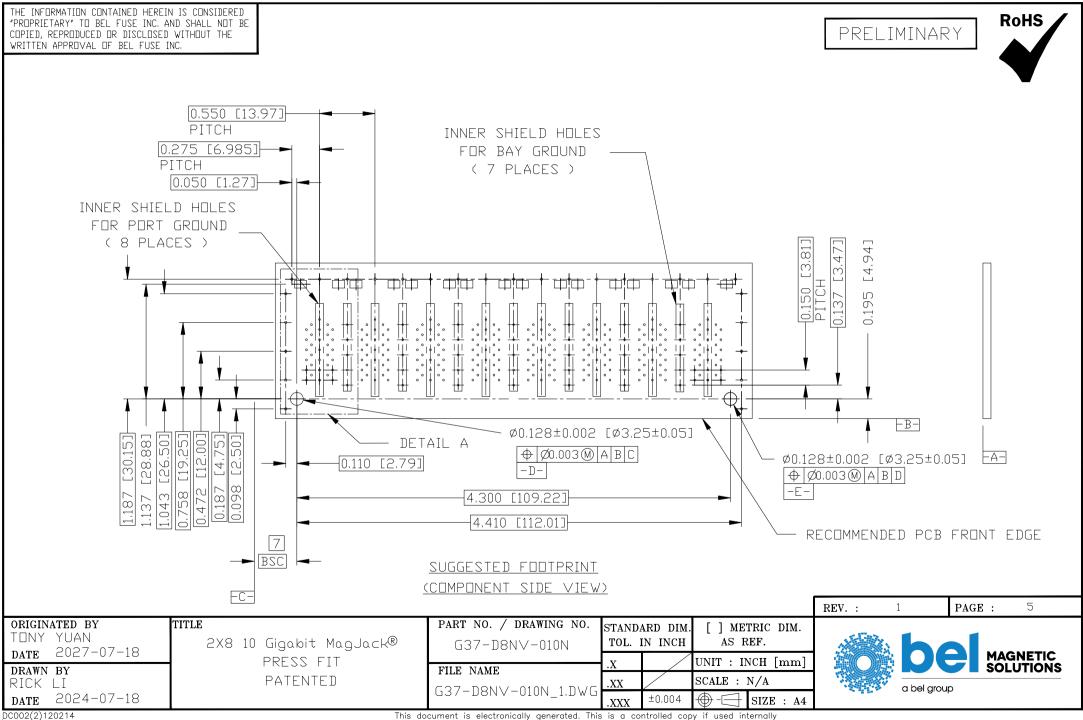
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 UNIT: INCH [mm]

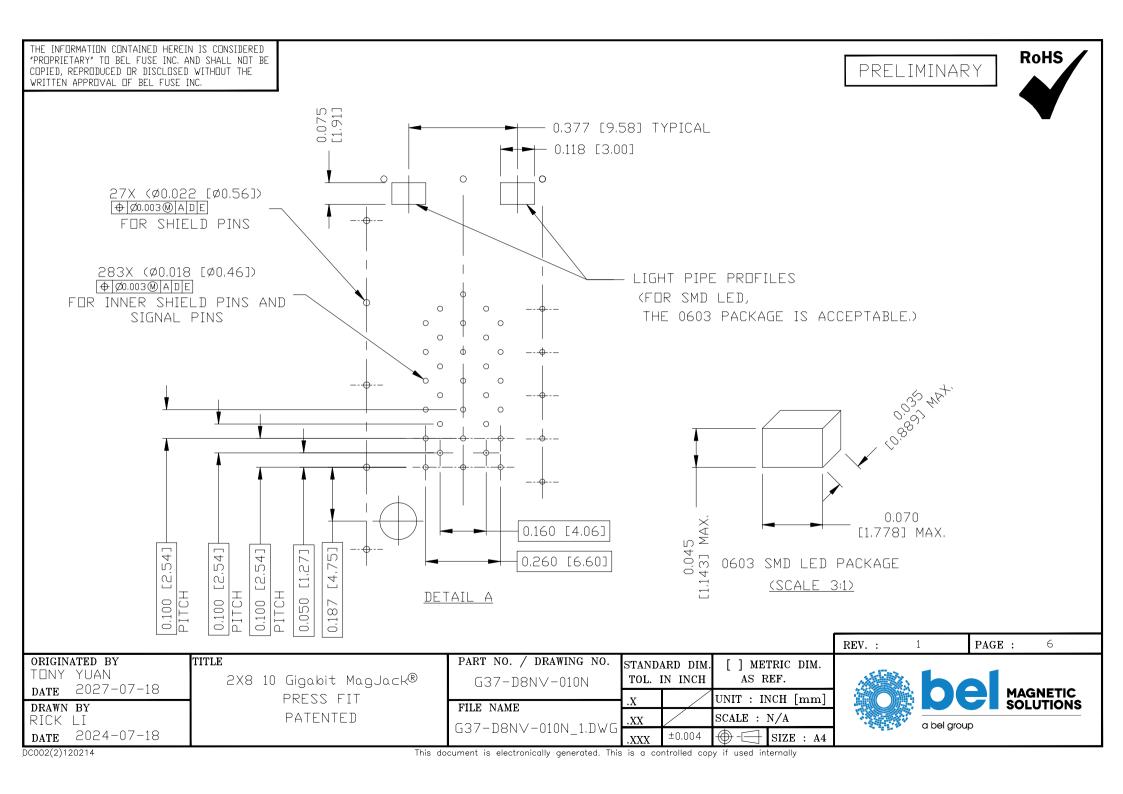
 SCALE: N/A

 .XXX
 ±0.010
 SIZE: A4





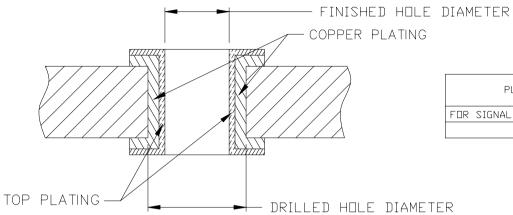




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PLATED-THROUGH-HOLE	DRILLED HOLE DIAMETER	FINISHED HOLE DIAMETER
FOR SIGNAL PINS AND INNER SHIELD PINS	0.022 [0.57]	(0.018 [0.46]) REF
FOR SHIELD PINS	0.026 [0.66]	(0.022 [0.56]) REF

# 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 PRESERVITAVE (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 2027-07-18

DRAWN BY
RICK LI

DATE 2024-07-18

TITLE

2X8 10 Gigabit MagJack®

PRESS FIT

PATENTED

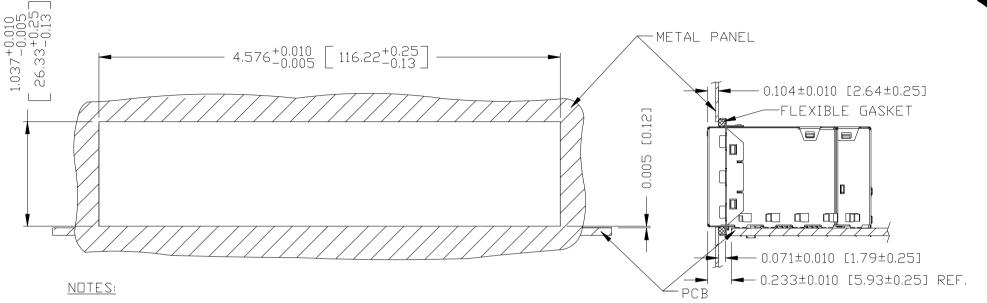


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## SUGGESTED PANEL OPENING







- 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)

THOUGHT THE OFFICIAL THOU CONTINUES THAT IS									
ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STAND	ARD DIM.	[ ] METRIC DIM.				
TONY YUAN	2X8 10 Gigabit MagJack®	G37-D8NV-010N		IN INCH	AS REF.				
<b>DATE</b> 2027-07-18	PRESS FIT		v		UNIT : INCH [mm]				
DRAWN BY		FILE NAME	.Α		onii . mon [mm]				
RICK LI	PATENTED		.XX		SCALE : N/A				
<b>DATE</b> 2024-07-18		G37-D8NV-010N_1.DWG	.XXX	±0.005	⊕-⊟ SIZE : A4				

