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DOCUMENT / PART NO.: G18-B8NV-010N

> TITLE: PRODUCT SPECIFICATION

| ISSUE | DESCRIPTION OF CHANGE | | | | | REVIEWED BY | | | APPI | APPROVED BY | | | ECN# | | | | | |
|-----------------------|-----------------------|---|---|---|-----------|-------------|-----------------|-----------|--------------|-------------|-------------|--------------|--------|--|--|--------|------|--|
| 1 | PRELIMINARY | | | | | | Т | TONY YUAN | | | | | | | | | | |
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| PAGE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | |
| REV. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | |
| PAGE | | | | | | | | | | | | | | | | | | |
| REV. DC0011202 | 14 | | | | This docu | ıment is e | ectronical | ly genera | ted. This is | s a contro | lled copy i | if used inte | rnally | | | Page 1 | of 8 | |

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PRELIMINARY

RoHS

ELECTRICAL CHARACTERISTICS @ 25°C

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 DHMS

 $1MHz \leqslant f \leqslant 40MHz$ 16 dB MIN

40MHz < f \(400MHz \) 16-10LOG(f/40MHz) dB 400MHz < f \(\500MHz \) 6-30LOG(f/400MHz) dB

CM TO CM REJ

1MHz - 500MHz -25 dB MIN

CM TO DM REJ

1MHz - 500MHz -30 dB MIN

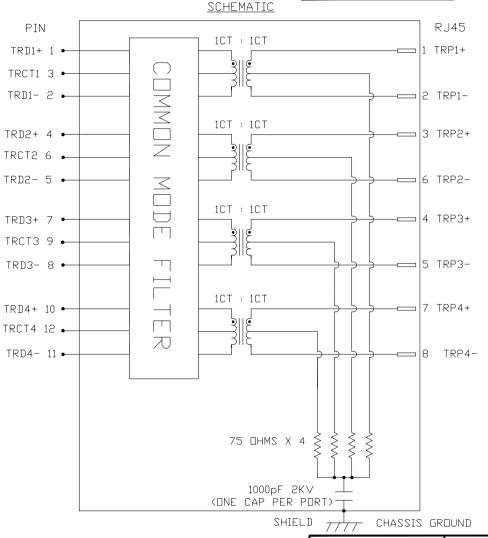
HIPOT (Isolation Voltage): 2250VDC

100% OF PRODUCTION TESTED TO COMPLY WITH

IEEE 802.3 ISOLATION REQUIREMENTS.

TITLE

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



ORIGINATED BY
BILL LIU
DATE 2024-07-18

DRAWN BY
TERRY LIN
DATE 2024-07-18

2X6 10 Gigabit MagJack® PRESS FIT

PRESS FIT PATENTED

PART NO. / DRAWING NO.

G18−B8N∨−010N

FILE NAME

G18−B8N∨−010N 1.DVG

.XX

.XX

STANDARD DIM. [] M
TOL. IN INCH AS

[] METRIC DIM. AS REF. REV. :

UNIT : INCH [mm]

SCALE : N/A

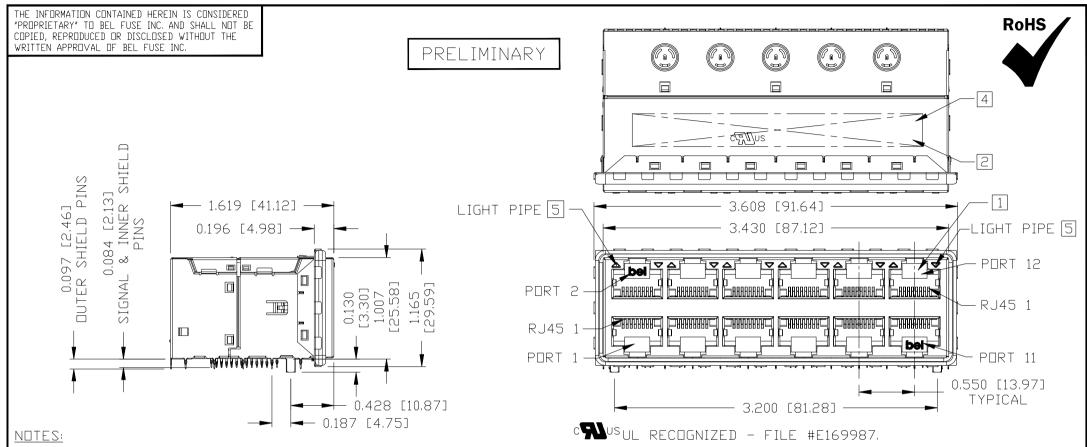
SIZE : A4



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PLASTIC HOUSING: THERMOPLASTIC LCP, 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.

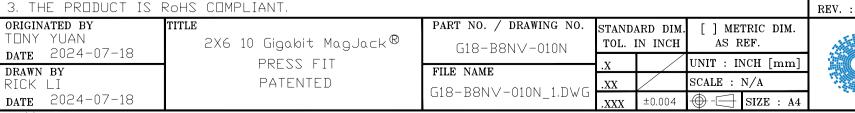
- 4. THE PRODUCT IS PATENTED. "PATENTED" MARKING IS ON THE TOF SURFACE. THE PATENT NUMBER ARE U.S. PAT. 7,429,195 & U.S. PAT. 6,840,817 & U.S. PAT. 7,924,130. & U.S. PAT. 7,123,117.
- 5. THE FINISHED GOODS IS WITHOUT SMD LED. THE SMD LED IS PROVIDED BY CUSTOMER HERSELF. AND THE SMD LED IS MOUNTED ON CUSTOMER PCB.
- 6. RECOMMNENDED MINIMUM CUSTOMER PCB THICKNESS IS 0.080 INCH.

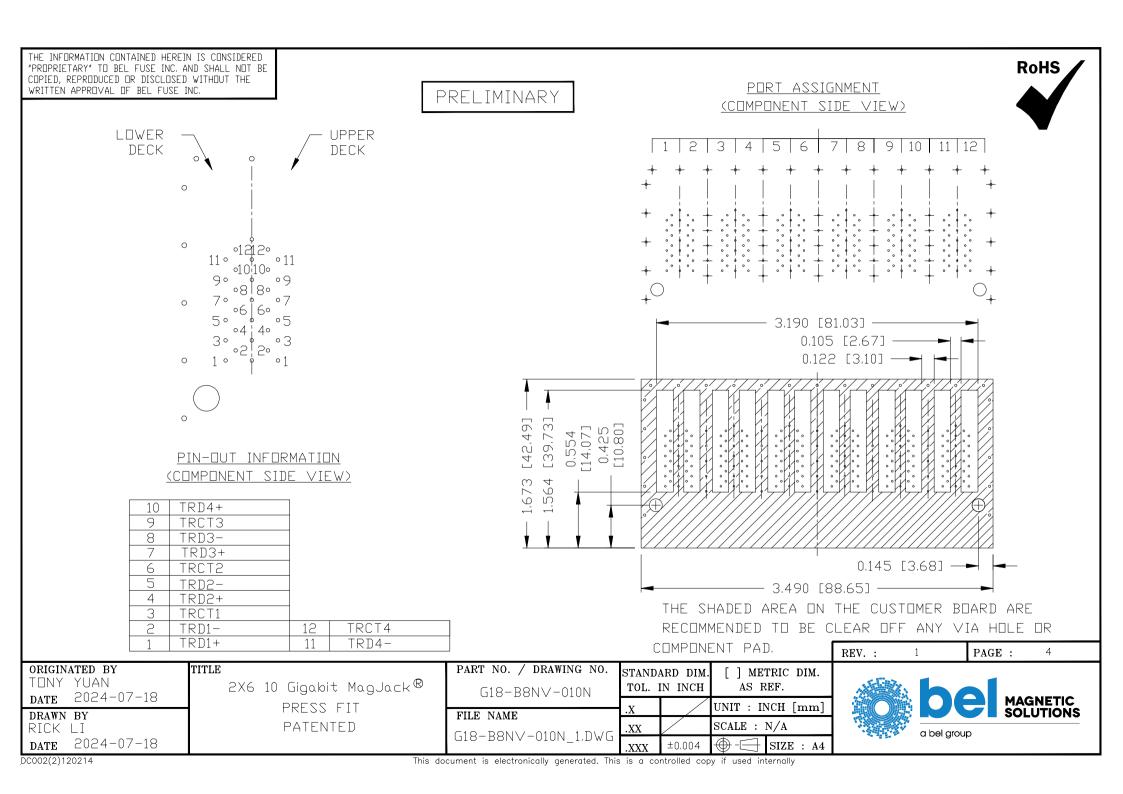
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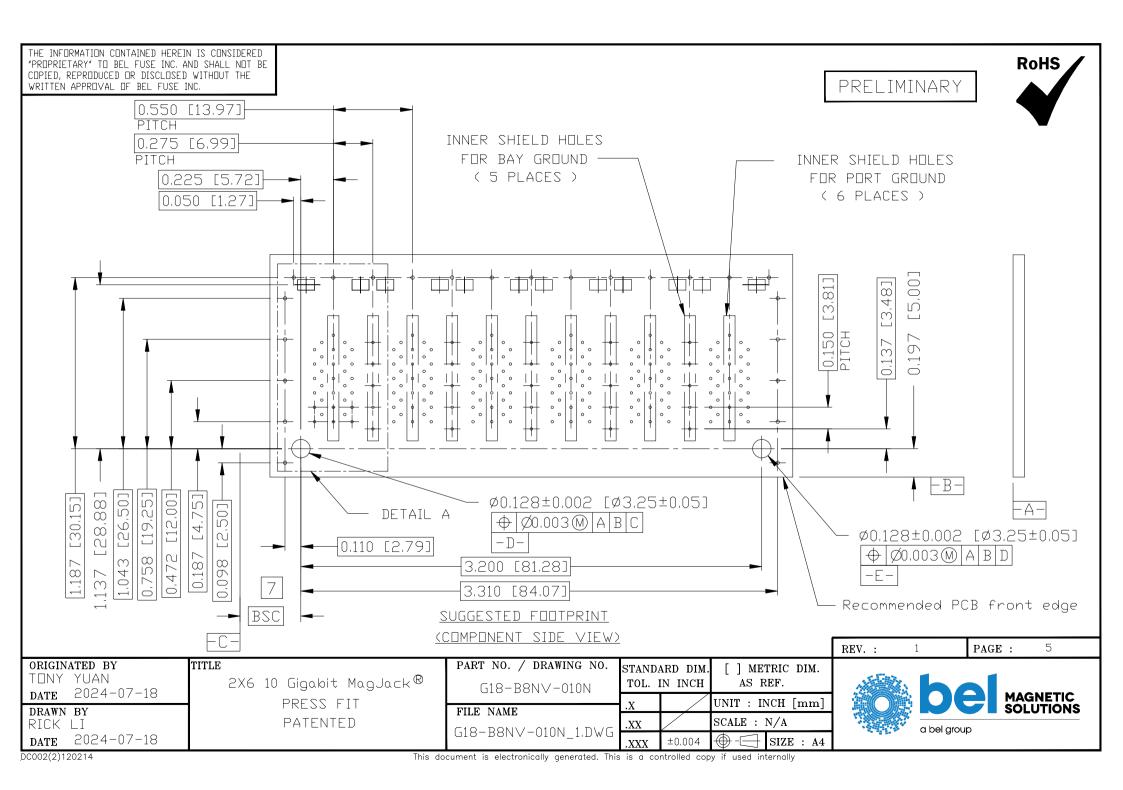
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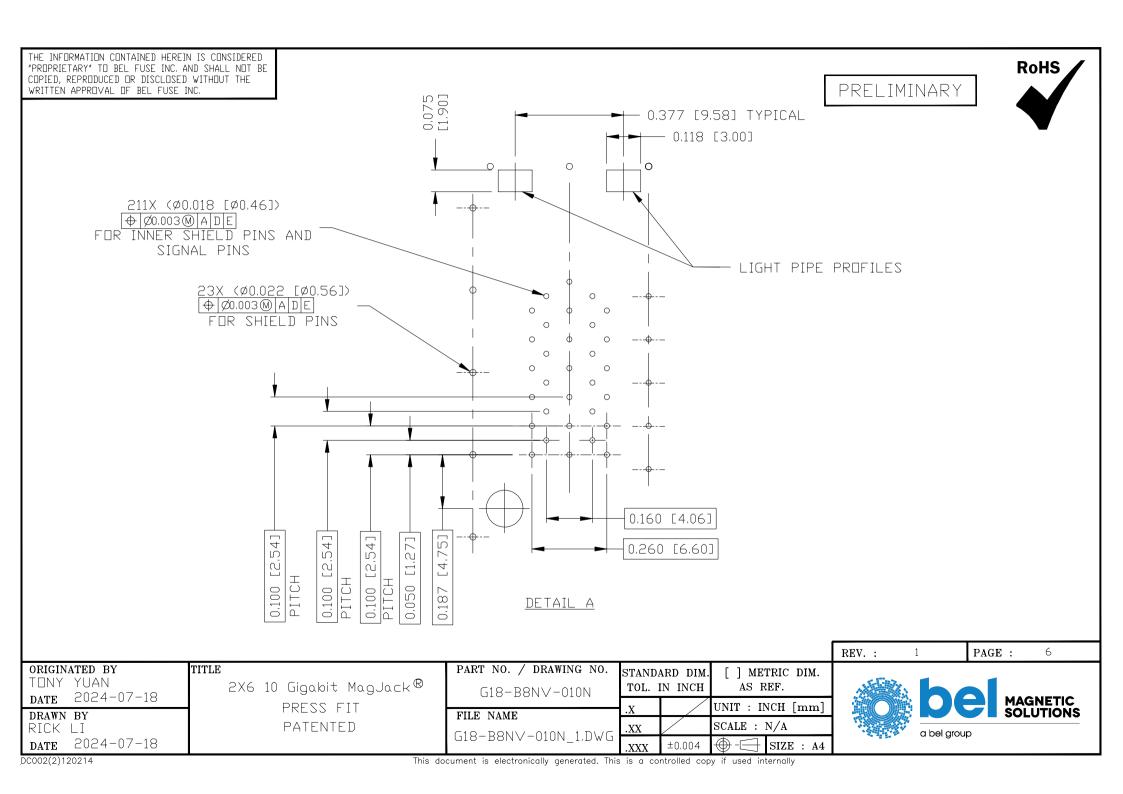
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7. DATUM C AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

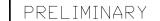




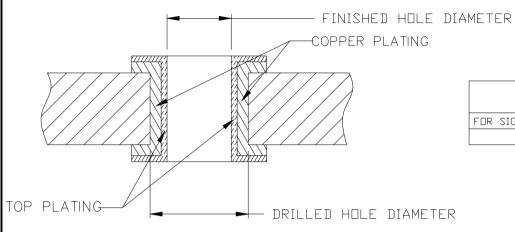




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| PLATED-THROUGH-HOLE | DRILLED HOLE DIAMETER | FINISHED HOLE DIAMETER |
|---------------------------------------|-----------------------|------------------------|
| FOR SIGNAL PINS AND INNER SHIELD PINS | 0.022 [0.57] | (0.018 [0.46]) REF |
| FOR 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) DVER 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 2024-07-18

DRAWN BY
RICK LI
DATE 2024-07-18

TITLE

2X6 10 Gigabit MagJack®
PRESS FIT
PATENTED

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

 G18-B8NV-010N_1.DWG
 .XX
 UNIT : INCH [mm]

 .XXX
 SCALE : N/A

 .XXX
 ± 0.005
 SIZE : A4

PAGE: 7

PAGE: 7

MAGNETIC SOLUTIONS
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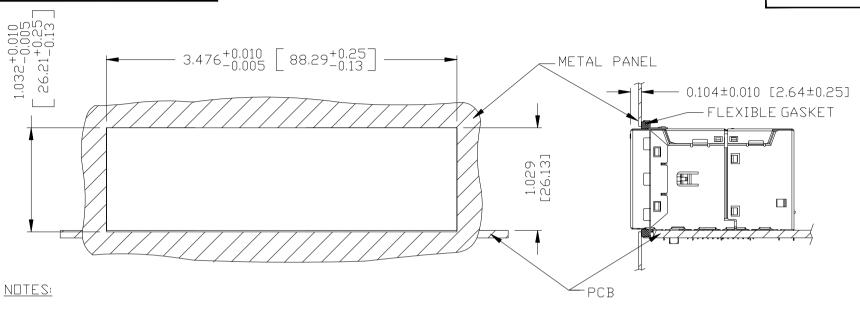
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SUGGESTED PANEL OPENING

PRELIMINARY





- 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 0080M1700-07.

PACKING INFORMATION

PACKING TRAY : 0200M9999-M5 (TOP)

0200M9999-M4 (BOTTOM)

PACKING QUANTITY: 9 PCS FINISHED GOODS PER TRAY.

7 TRAYS (63 PCS FINISHED GOODS) PER CARTON BOX.

REMARK : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX.

(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

 ORIGINATED BY
 TITLE

 T DNY YUAN
 2X6

 DATE 2024-07-18
 2X6

 DRAWN BY
 RICK LI

 DATE 2024-07-18
 2024-07-18

2X6 10 Gigabit MagJack®
PRESS FIT
PATENTED

PART NO. / DRAWING NO.

G18-B8NV-010N

FILE NAME

G18-B8NV-010N_1.DWG

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

