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DOCUMENT / PART NO.: G10-1GHT-056J

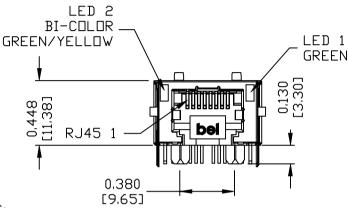
TITLE: PRODUCT SPECIFICATION

ISSUE			DES	CRIPT	TION O	F CHA	NGE		F	REVIE	WED B	Y	APPI	ROVE	BY	EC	N#
1	PRELIMINARY						T	TONY YUAN									
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THE INFORMATION CONTAINED HEREIN IS CONSIDERED **RoHS** "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC. SCHEMATIC ELECTRICAL CHARACTERISTICS @ 25°C PIN RJ45 LED1 TURNS RATIO 1CT : 1CT TP1 TP2 ∍|1 TRP1+ 1CT : 1CT TRD1+ 8 ← 1CT : 1CT TRCT1 7 ← TP3 1CT : 1CT TP4 1CT : 1CTl2 TRP1-TRD1- 9 • INS, LOSS (MAX) 1MHz TO 20MHz -0.8 dB1CT : 1CT 3 TRP2+ TRD2+ 3 -50MHz -1.0 dB200MHz -1.2 dBTRCT2 1 • 400MHz -2.0 dB \leq 6 TRP2-TRD2- 2 ← 500MHz -3.0 dBRET. LOSS (MIN) \square 1CT : 1CT 4 TRP3+ TRD3+ 4 ← 1MHz - 40MHz -16 dBTRCT3 6 ← 40MHz - 400 MHz $-16+10L\Box G (F/40) dB$ 400MHz - 500 MHz -6+30LOG (F/400) dB TRD3- 5 l5 TRP3-CM TO CM REJ -30 dB MIN 1MHz - 500MHz 1CT : 1CT TRD4+ 11 ← 7 TRP4+ CM TO DM REJ TRCT4 12⊷ カ 1MHz - 500MHz -30 dB MIN TRP4-TRD4- 10 -HIPOT (Isolation Voltage): 2250VDC 100% OF PRODUCTION TESTED TO COMPLY WITH LED2 C□MM□N 16 ← IEEE 802.3 ISOLATION REQUIREMENTS. LED VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP. YELLOW 15 YELLOW 2.1V TYP. GREEN 17 1000pF 2KV AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP. YELLOW 590nm TYP. SHIELD OPERATING TEMPERATURE: -40°C TO +85°C. PAGE: 2 REV. : ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM. [] METRIC DIM. BILL LIU TOL. IN INCH AS REF. 1X1 10 GIGABIT MagJack G10-1GHT-056J DATE 2024-08-22 UNIT : INCH [mm] (Ultro Low Profile) FILE NAME DRAWN BY SCALE : N/A FRANK LIU .XX PATENTED a bel group G10-1GHT-056J_1.DWG DATE 2024-08-22 ☐ ISIZE : A4 DC002(2)120214 This document is electronically generated. This is a controlled copy if used internally

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MECHANICAL SPECIFICATION



NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA, BLACK.

FLAMMABILITY RATING UL 94V-0

CONTACTS: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.

DUTPUT 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.

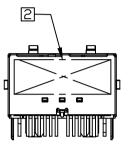
(ALL GROUND LEADS ARE SOLDER DIPPED)

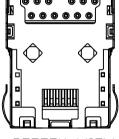
- [1] MARK PART WITH PART NUMBER (G10-1GHT-056H), DATE CODE AND PATENTED.
- 2 MARK PART WITH MFG. LOGO, MFG. NAME ON BACK VIEW.
- 3. THE PRODUCT IS ROHS COMPLIANT.

 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

0.557 [14.15] REF. 0,055±0,020 [1,40±0,51] 0.692 [17.58] 0,750 [19,05] LEADS LED 811 EAD 0.125 SIGNAL& L 0.945 [24,00] 0.150 C GROUND 0,055±0,020 [1,40±0,51] 0.100 [2.54] 0.100 [2.54] 0.260 [6.60] **PITCH** 0.350 [8.89] 0.520 [13.21]







BOTTOM VIEW

c Susul recognized - file #E169987.

4. THE PART IS RECOMMENDED FOR WAVE SOLDERING, THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX. AND 10 SECONDS MAX..

- 5. THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE U.S. PAT. 7,429,195 & U.S. PAT. 7,123,117 & U.S. PAT. 6,840,817 AND U.S. PAT. 7,924,130.
- 6. THE AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.

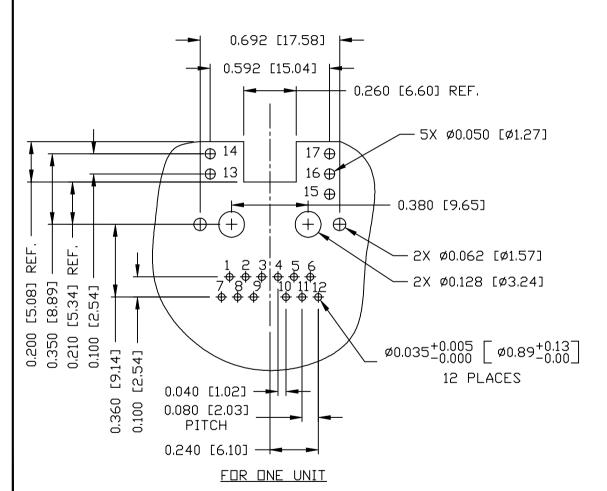
3 REV. : PAGE: ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM. [] METRIC DIM. TONY YUAN TOL. IN INCH AS REF. 1X1 10 GIGABIT MagJack G10-1GHT-056J 2024-08-22 UNIT : INCH [mm] DRAWN BY (Ultro Low Profile) FILE NAME SCALE: N/A TOWER YU .XX PATENTED a bel group G10-1GHT-056J_1.DWG DATE 2024-08-22 ± 0.010 SIZE : A4

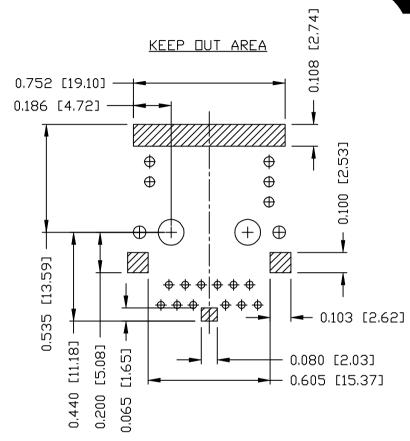
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RECOMMENDED PCB FOOTPRINT

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 2024-08-22
DRAWN BY
TOWER YU

2024-08-22

TITLE

1X1 10 GIGABIT MagJack (Ultro Low Profile)
PATENTED

 PART NO. / DRAWING NO.
 STA

 G10-1GHT-056J
 TO

 FILE NAME
 .XX

 G10-1GHT-056J_1.DWG
 .XX

 .XX

STANDARD DIM.

TOL. IN INCH

AS REF.

UNIT : INCH [mm]

 REV.: 1 PAGE: 4

MAGNETIC SOLUTIONS
a bel group

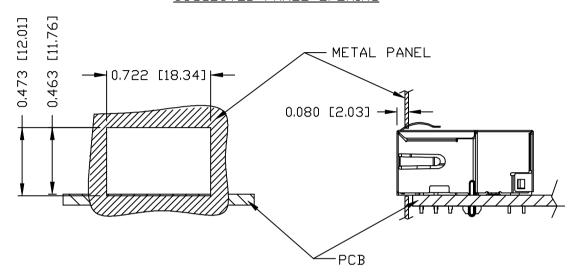
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DATE

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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.

TRAY PACKING INFORMATION

PACKING TRAY: 0200-9999-E4 (TOP) 0200-9999-E5 (BOTTOM)

PACKING QUANTITY: 60 PCS FINISHED GOODS PER TRAY

11 TRAYS (660 PCS FINISHED GOODS) PER CARTON BOX

NOTE : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE

CARTON BOX (INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STAND	ARD DIM.	1	
TONY YUAN	1X1 10 GIGABIT MagJack [®]			IN INCH		
DATE 2024-08-22		410 14111 0000	$\overline{\mathbf{v}}$		UNIT : INCH [mm]	
DRAWN BY	(Ultro Low Profile)	FILE NAME	.X		one canon [man]	
TOWER YU	PATENTED	540 45UT 056 L 4 D) /5	.xx		SCALE : N/A	
DATE 2024-08-22	····ENTED	G10-1GHT-056J_1.DWG	.XXX	±0,005	SIZE : A4	

REV.: 1 PAGE: 5

MAGNETIC SOLUTIONS
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Mouser Electronics

Authorized Distributor

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Bel:

G10-1GHT-056J