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DOCUMENT / PART NO.: G54-2NNC-143G

TITLE: PRODUCT SPECIFICATION

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_	PRELIMINARY
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PAGE	

REV.

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HF ELECTRICAL CHARACTERISTICS @ 25°C SCHEMATIC RJ45 PIN TURNS RATIO TP1 1CT : 1CT 1CT : 1CT ŤÞ2 1CT : 1CT TRD1+ 8 ← —|1 TRP1+ TP3 1CT : 1CT TRCT1 7 ← TP4 1CT : 1CT INS. LOSS (MAX) -—|2 TRP1-TRD1- 9 ← 1MHz TO 20MHz -0.8 dB1CT : 1CT 50MHz -1.0 dB —|3 TRP2+ TRD2+ 3 ← 200MHz -1.2 dB TRCT2 1 ← 400MHz -2.0 dB 500MHz —l6 TRP2--3.0 dB \leq TRD2- 2 ← RET. LOSS (MIN) 1CT : 1CT 1MHz - 40MHz -16 dB **—**|4 TRP3+ TRD3+ 4 • \Box 40MHz - 400 MHz $-16+10L\Box G$ (F/40) dB TRCT3 6 ← 400MHz - 500 MHz $-6+30L\Box G (F/400) dB$ $\neg \neg$ \vdash TRD3- 5 ← ⇒l5 TRP3-CM TO CM REJ 1MHz - 500MHz -30 dB MIN 1CT : 1CT П CM TO DM REJ TRD4+ 11 ← ⇒|7 TRP4+ π 1MHz - 500MHz -30 dB MIN TRCT4 12-2250VDC HIPOT (Isolation Voltage): TRP4-TRD4- 10 -100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS. 75 □HMS X4 \$ OPERATING TEMPERATURE: 0°C TO +85°C 1000pF 2KV SHIELD REV. : PAGE:

ORIGINATED BY BILL LIU **DATE** 2024-07-17 DRAWN BY YI LIU 2024-07-17 TITLE 1X2 10 Gigabit MagJack® (ULTRA LOW PROFILE) PATENTED

PART NO. / DRAWING NO. G54-2NNC-143G FILE NAME

G54-2NNC-143G 1.DWG

STANDARD DIM. TOL. IN INCH

[] METRIC DIM. AS REF.

SIZE : A4

UNIT: INCH [mm] SCALE: N/A

a bel group

RoHS

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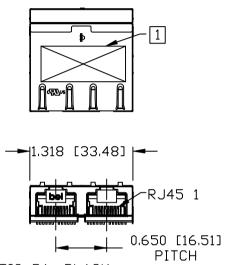
XX.

MECHANICAL SPECIFICATION

[10,13]

1,310 [33,27]





0,062±0,005 [1,57 0.082 [RDUND 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: STAINLESS STEEL

(ALL GROUND LEADS ARE SOLDER DIPPED)

- 11 MARK PART WITH PART NUMBER, DATE CODE AND "PATENTED" MARKING, THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S. PAT. 7,123,117 & U.S. PAT. 6,840,817 & U.S. PAT. 7,429,195 AND U.S. PAT. 7,924,130.
- 2. THE PRODUCT IS ROHS COMPLIANT WITH HALOGEN FREE.

3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS. PART 68 SUBPART F.

0.492 [12.50]

SIGNAL

0.216 [5.49]

0.648 [16.46]

0.748 [19.00]

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

REV. :

USUL RECOGNIZED - FILE #E169987. ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM. [] METRIC DIM. TONY YUAN 1X2 10 Gigabit MagJack® TOL. IN INCH AS REF. G54-2NNC-143G 2024-07-17 DATE UNIT: INCH [mm] (ULTRA LOW PROFILE) DRAWN BY FILE NAME SCALE: N/A XX. TOWER YU PATENTED

⊕-E-ISIZE : A4

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2024-07-17

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G54-2NNC-143G 1.DWG

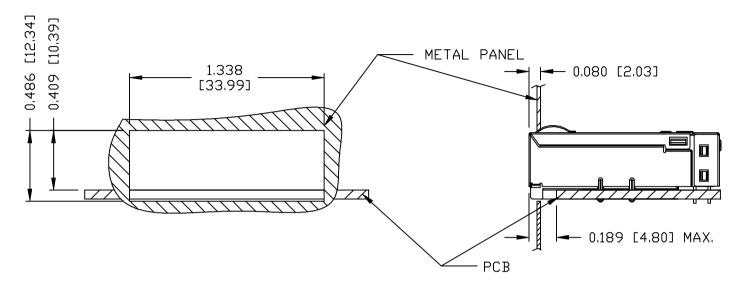
NOTES:

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. **RoHS** RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW $24 \times 0.035^{+0.005}_{-0.000}$ $\left[0.89^{+0.13}_{-0.00} \right]$ 6XR0.039 [R0.99] -0.040 [1.02] 0.240 [6.10] 0.080 [2.03] PITCH 4XØ0.055 [Ø1.40] -0.160 [4.06] 0.080 [2.03] PITCH 000 000 000000 [5,49] 0.650 [16.51] **PITCH** 0,216 0.980 [24.89] 0.512 [13.00] MIN. 0.330 [8.38] REV. : PAGE: PART NO. / DRAWING NO. ORIGINATED BY TITLE [] METRIC DIM. STANDARD DIM. TONY YUAN 1X2 10 Gigabit MagJack® TOL. IN INCH AS REF. G54-2NNC-143G MAGNETIC SOLUTIONS 2024-07-17 DATE UNIT: INCH [mm] (ULTRA LOW PROFILE) DRAWN BY FILE NAME TOWER YU SCALE: N/A a bel group XX. PATENTED G54-2NNC-143G_1.DWG 2024-07-17 SIZE : A4 DATE ±0.004 DC002(2)120214 This document is electronically generated. This is a controlled copy if used internally

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SUGGESTED PANEL OPENING





NOTES:

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.

PACKING INFORMATION

PACKING TRAY : 0200M9999-S9 (TOP)

0200M9999-S8 (BUTTUM)

PACKING QUANTITY: 24 PCS FINISHED GOODS PER TRAY

11 TRAYS (264 PCS FINISHED GOODS) PER CARTON BOX

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

(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STAND	ARD DIM.	[] METRIC DIM.
TONY YUAN	1X2 10 Gigabit MagJack [®]	G54-2NNC-143G	TOL. IN INCH		
DATE 2024-07-17			.x		UNIT : INCH [mm]
DRAWN BY	(ULTRA LOW PROFILE)	FILE NAME	·A		
TOWER YU	PATENTED		.XX		SCALE: N/A
DATE 2024-07-17	2711 25	G54-2NNC-143G_1.DWG	.XXX	±0.005	SIZE : A4

REV.: 1 PAGE: 5

MAGNETIC SOLUTIONS
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