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

TITLE: PRODUCT SPECIFICATION

ISSUE			DESC	RPTI	DESCRIPTION OF CHANGE	CHA	IGE		7	REVIEV	REVIEWED BY	_	APPR	APPROVED BY	ВҮ	ECN#	#
_	PRELIMINARY	/INAR	7						T	TONY YUAN	JAN						
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#### HF ELECTRICAL CHARACTERISTICS @ 25°C SCHEMATIC RJ45 PIN TURNS RATIO TP1 1CT : 1CT 1CT : 1CT TP2 1CT : 1CT TRD1+ 8 ← —|1 TRP1+ TP3 1CT : 1CT TRCT1 7 ← TP4 1CT : 1CT INS. LOSS (MAX) -—|2 TRP1-TRD1- 9 ← 1MHz TD 20MHz -0.8 dB 1CT : 1CT 50MHz -1.0 dB —|3 TRP2+ TRD2+ 3 ← 200MHz -1.2 dB TRCT2 1 ← 400MHz -2.0 dB500MHz —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 $\Box$ CM TO DM REJ TRD4+ 11 ← ⇒|7 TRP4+ $\pi$ 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 TITLE PART NO. / DRAWING NO. STANDARD DIM. [ ] METRIC DIM.

G54-2NNC-143G

G54-2NNC-143G 1.DWG

FILE NAME

RoHS

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XX.

TOL. IN INCH

AS REF.

SCALE: N/A

UNIT: INCH [mm]

SIZE : A4

a bel group

2024-07-17

2024-07-17

BILL LIU

DRAWN BY

YI LIU

DC002(2)120214

DATE

DATE

1X2 10 Gigabit MagJack®

(ULTRA LOW PROFILE)

PATENTED

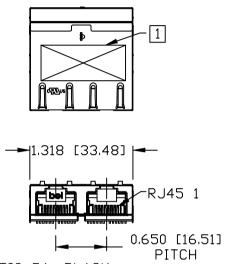
#### MECHANICAL SPECIFICATION

0,062±0,005 [1,57

[10,13]

1,310 [33,27]





NOTES: PLASTIC HOUSING: THERMOPLASTIC PA, BLACK FLAMMABILITY RATING UL 94V-0

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 TOL. IN INCH AS REF. 1X2 10 Gigabit MagJack® G54-2NNC-143G 2024-07-17 DATE UNIT: INCH [mm] (ULTRA LOW PROFILE) DRAWN BY FILE NAME SCALE: N/A TOWER YU XX. PATENTED G54-2NNC-143G 1.DWG

-SIZE : A4

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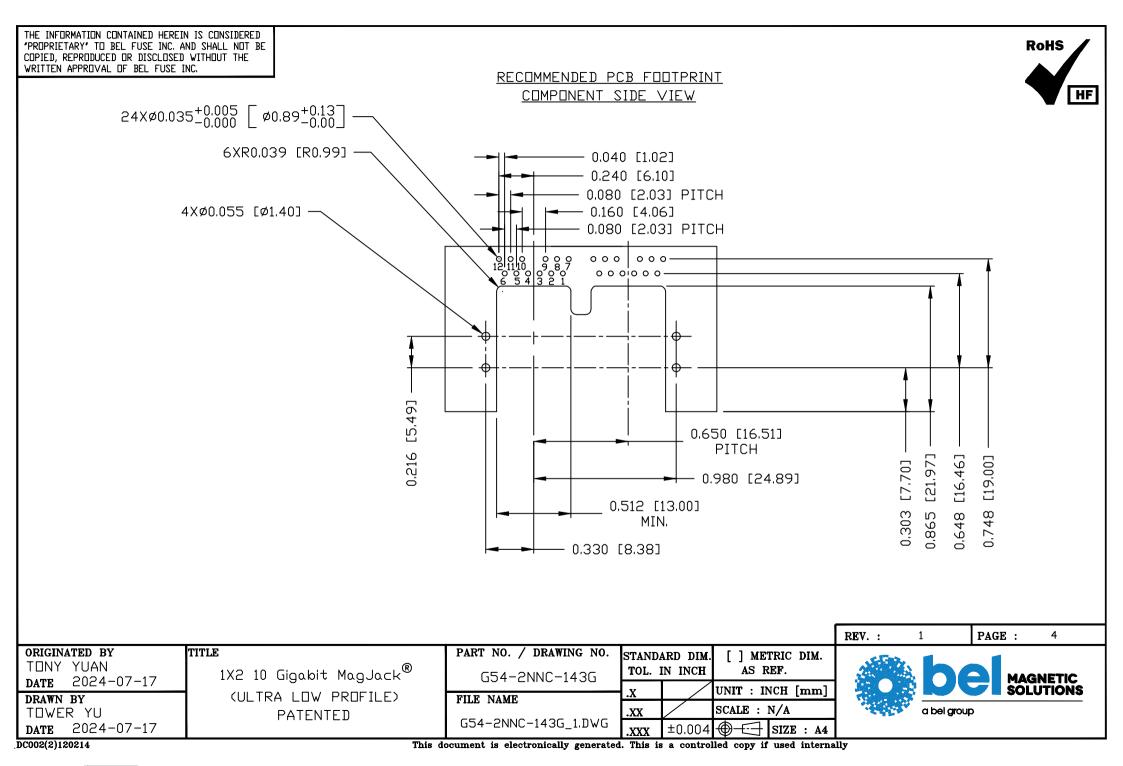
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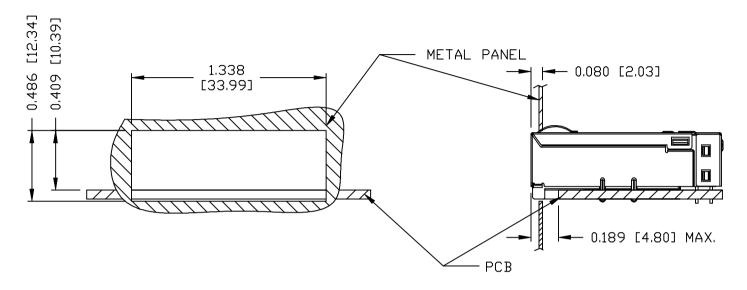
CONTACTS:



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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 <sup>®</sup>	G54-2NNC-143G		IN INCH	AS REF.
<b>DATE</b> 2024-07-17			.x		UNIT : INCH [mm]
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<b>DATE</b> 2024-07-17	· · · · · <b>=</b> · · · · <b>= -</b>	G54-2NNC-143G_1.DWG	.xxx	±0.005	SIZE : A4

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