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. ELECTRICAL CHARACTERISTICS @ 25°C SCHEMATIC TURNS RATIO **RJ45** TP1 1CT : 1CT ±2% TP2 1CT : 1CT ±2% 1CT : 1CT TRD1+ 11 ← 1 TRP1+ TP3 1CT : 1CT ±2% $\overline{\mathbf{w}}$ TP4 1CT : 1CT ±2% TRCT1 12 ← DCL @ 100kHz/100mVRMS \sim 2 TRP1-TRD1- 10 •-8mA DC BIAS 350 µH MIN. 1CT : 1CT TRD2+ 4 • 3 TRP2+ INS, LOSS سس 0.1MHz TO 1MHz -1.1 dB MAX TRCT2 6 1MHz TO 65MHz -0.5 dB MAX TRD2- 5 • 6 TRP2-65MHz T∏ 100MHz -0,8 dB MAX 1CT : 1CT TRD3+ 3 ◆ 4 TRP3+ 100MHz TD 125MHz -1.2 dB MAX $\overline{\mathbf{w}}$ TRCT3 1 ◆ RFT. LOSS (MIN) \sim 5 TRP3-0.5MHz-40MHz -18 dB TRD3- 2 • 40MHz-100MHz $-12+20L\Box G(f/80MHz) dB$ 1CT : 1CT TRD4+ 8 7 TRP4+ CROSS TALK ww TRCT4 7 ← 100kHz - 100MHz $-33+20L\Box G(f/100MHz)dB$ MIN 8 TRP4-TRD4- 9 • CM TO CM REJ 100kHz - 100MHz -30 dB MIN 4X 75 DHMS CM TO DM REJ 100kHz - 100MHz -35 dB MIN 1000pF 2kV HIPOT (Isolation Voltage): 1500 Vrms 100% OF PRODUCTION TESTED TO COMPLY SHIELD 7777 WITH IEEE 802,3 ISOLATION REQUIREMENTS OPERATING TEMPERATURE: 0°C TO +70°C, REV. : PAGE: 2 ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM [] METRIC DIM. CHOW WANCHUNG gigabit MagJack® TOL. IN INCH AS REF. 08161X1T43-F **DATE** 2017-04-28 (8 Cores, Tab Up, w/o LED) UNIT : INCH [mm] DRAWN BY FILE NAME 0816-1X1T-43-F SCALE : N/A XIE YIMING XX. a bel group

RoHS

DATE 2017-04-28

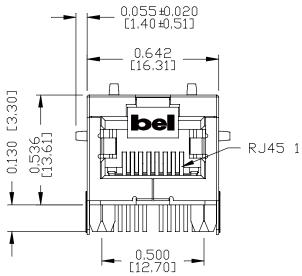
PATENTED

SIZE : A4

08161X1T43-F D.DWG

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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,

FILE NAME

METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.

(ALL GROUND LEADS ARE SOLDER DIPPED)

1 MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER,

DATE CODE AND PATENTED.

2. THE PRODUCT IS ROHS COMPLIANT.

c Nius ul recognized - file #E196366 and E169987.

3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, 4. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S. PAT. 7,123,117.

1,200 [30,48]

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

REV. :

D

PART NO. / DRAWING NO. STANDARD DIM. [] METRIC DIM. TOL. IN INCH AS REF. 08161X1T43-F [UNIT : INCH [mm]].X SCALE: N/A .XX08161X1T43-F D.DWG SIZE : A4

±0.010

0,055±0,020 [1,40±0,51]

0,145 [3,68] GROUND LEADS

0,305 [7,75] -

0,125 [3,17] -

0,600 [15,24] -

0.700 [17.78]

MAGNETIC SOLUTIONS a bel group

PAGE:

RoHS

[3,18] LEADS

ΑΝΤΠΝ Ι ΙΑΠ **DATE** 2017-04-28 DRAWN BY LIU DONGJUN **DATE** 2017-04-28

ORIGINATED BY

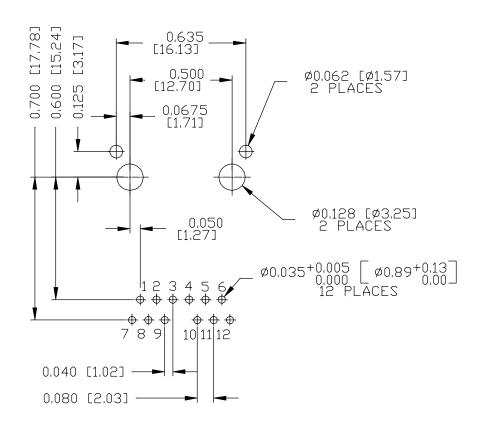
TITLE gigabit MagJack® (8 Cores, Tab Up, w/o LED) 0816-1X1T-43-F PATENTED

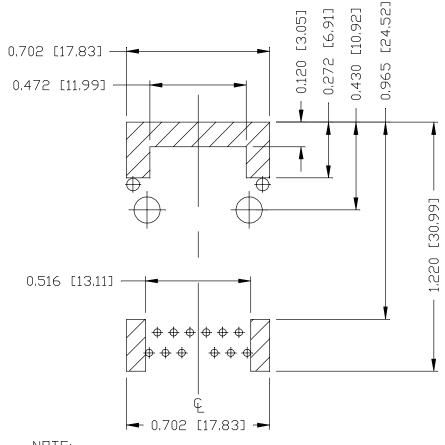
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RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW





NOTE:

THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

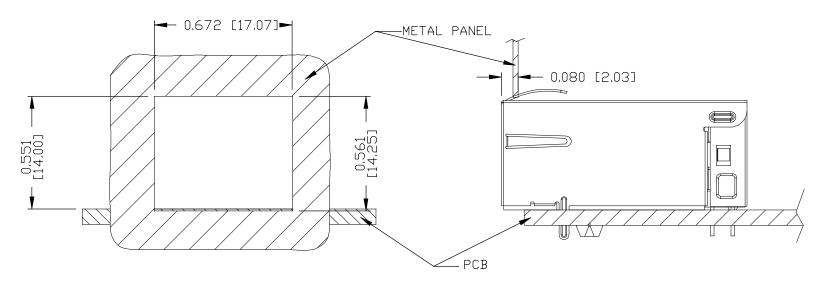
ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STAND	ARD DIM.	[] METRIC DIM.
ANTON LIAO date 2017-04-28	gigabit MagJack®	08161X1T43-F		IN INCH	
	(8 Cores, Tab Up, w/o LED)	TOTAL DIAGRAM	.x		UNIT : INCH [mm]
DRAWN BY Liu Dongjun	0816-1X1T-43-F PATENTED	FILE NAME 08161X1T43-F_D.DWG	.XX		SCALE : N/A
DATE 2017-04-28	I HILINILD	0816171143-F_DWG	.xxx	±0,004	SIZE : A4



RoHS

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.

PACKING INFORMATION

PACKING TRAY : 0200-9999-F1 (TOP)

0200-9999-F2 (BOTTOM)

PACKING QUANTITY: 40 PCS FINISHED GOODS PER TRAY

10 TRAYS (400 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. STANDARD DIM. [] METRIC DIM. ANTON LIAD gigabit MagJack® TOL. IN INCH AS REF. 08161X1T43-F **DATE** 2017-04-28 (8 Cores, Tab Up, w/o LED) UNIT : INCH [mm] DRAWN BY 0816-1X1T-43-F FILE NAME SCALE : N/A LIU DONGJUN .XX PATENTED 08161X1T43-F D.DWG DATE 2017-04-28 ☐ | SIZE : A4 ±0,004 .XXX

REV. : D PAGE : 5

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