THE INFORMATION CONTAINED HEREIN IS CONSIDERED LED1 POLARITY LED2 POLARITY RoHS "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE PIN 17 PIN 18 COLOR PIN 19 PIN 20 COLOR COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC. YELLOW YELLOW GREEN GREEN SCHEMATIC ELECTRICAL CHARACTERISTICS @ 25°C LED1 PIN TURNS RATIO YELLOW RJ45 GREEN (本女) 1CT : 1CT TP1 18 • TP2 1CT : 1CT TP3 1CT : 1CT 1CT : 1CT TP4 1CT : 1CT TRD1+ 11 •─ 1 TRP1+ INS. LOSS (MAX) TRCT1 12 ← 1MHz TO 20MHz -0.8 dBTRD1- 10 •-2 TRP1-50MHz -1.0 dB200MHz -1.2 dB1CT : 1CT 400MHz -2,0 dB TRD2+ 4 •-3 TRP2+ Z 500MHz -3.0 dBTRCT2 6 ← \leq RET, LOSS (MIN) TRD2- 5 •-TRP2-1MHz - 40MHz -16 dB \Box 1CT : 1CT 40MHz - 400 MHz TRP3+ -16+10LOG (F/40) dB TRD3+ 3 • 4 400MHz - 500 MHz -6+30LDG (F/400) dB TRCT3 1 ⋅ CM TO CM REJ TRD3- 2 ► 5 TRP3-1MHz - 100MHz -30 dB MIN 1CT : 1CT HIPOT (Isolation Voltage): 2250 VDC TRD4+ 8 •-TRP4+ 100% OF PRODUCTION TESTED TO COMPLY WITH TRCT4 7 • 70 IEEE 802.3 ISOLATION REQUIREMENTS. TRD4- 9 •-8 TRP4-LED1 AND LED2 VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP. VC12 13 ← YELLOW 2.1V TYP. VC36 14 4X 22nF AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP, VC45 VC78 15 16 100V YELLOW 590nm TYP. 4X 75 DHMS BALANCED DC LINE CURRENT 600mA MAX CONTINUOUS LED2 1.2A MAX, FOR 200 MILLISECONDS 1000pF 2kV OPERATING TEMPERATURE: -40°C TD 85°C GREEN (YELLOW 20 -SHIELD 7777 PB 2 REV. : PAGE: ORIGINATED BY TITLE PART NO. / DRAWING NO. [] METRIC DIM. STANDARD DIM. CHOW WANCHUNG 10 gigabit MagJack® TOL. IN INCH AS REF. G55-122N-155 DATE 2020-08-07 MAGNETIC UNIT : INCH [mm] Vertical, 4PPoE SOLUTIONS DRAWN BY XIE YIMING FILE NAME SCALE : N/A PATENTED XX. a bel group G55-122N-155 PB.DWG DATE 2020-08-07 SIZE : A4 XXX DC002(2)120214

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MECHANICAL SPECIFICATION

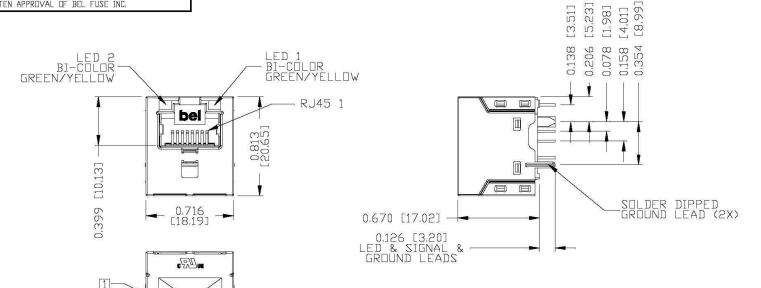


3

MAGNETIC SOLUTIONS

PAGE:

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NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT, BLACK

FLAMMABILITY RATING UL 94V-0

CONTACT PLATING 30 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)

JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

[] MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER,
DATE CODE AND PATENTED.

2. THE PRODUCT IS ROHS COMPLIANT.

c TV us UL RECOGNIZED - FILE #E169987.

- 3, THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S. PAT 6,840,817 & U.S. PAT, 7,429,195 & U.S. PAT, 7,123,117 AND U.S. PAT, 7,924,130.
- 4. THE PART IS RECOMMENDED FOR WAVE SOLDERING, THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX, AND 10 SECONDS MAX.

REV. :

| VALL ORDOND LEADS ARE SULDER DIFFED? | | | | | | | | | |
|--------------------------------------|---------------------------------|-------------------------------------|-------|----------|-----------------|--|--|--|--|
| ORIGINATED BY | TITLE | PART NO. / DRAWING NO. | STAND | ARD DIM. | [] METRIC DIM. | | | | |
| LI QUANKUN Date 2020-08-07 | 10 gigabit MagJack [®] | G55-122N-155 | | IN INCH | AS REF. | | | | |
| DRAWN BY | Vertical, 4PPoE | FILE NAME | .X | | UNIT: INCH [mm] | | | | |
| DLIVER ZHANG | PATENTED | 1936.2 (23): 53: 10.89980(65):000.3 | .XX | | SCALE : N/A | | | | |
| DATE 2020-08-07 | THILLITED | G55-122N-155_PB,DWG | .XXX | ±0,010 | SIZE : A4 | | | | |

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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 0.576 [14.63] -[1,68] 0.534 [13.56] --0.394 [10.01] -0.313 [7.95] -0.376 [9.55] 990'0 0.100 [2.54] -2X 0.128 [ø3.25] 18 19 0 **+ + i + + + +** 16 2X 0.062 [Ø1.57] Ç [8,99] [4,01] [3,51] 16X 0,035^{+0,005} [\$0,89^{+0,13}] [9,50] [4,95] — 0.556 [14.12] -- 0.138 0.354 0.295 0.158 [- 0,040 [1,02] TYP, 0.374 0,080 [2,03] TYP, 0,200 [5,08] 0,708 [17,98] ---NOTES RECOMMENDED PCB FOOTPRINT THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT SIDE VIEW COMPONENT PAD.

| ORIGINATED BY LI QUANKUN DATE 2020-08-07 | TLE 10 gigabit MagJack [®] | | | OF A SERVICE CHARGE CAR AND A SERVICE CAR | | <u> </u> |
|--|--|------------------------------|-------------|---|------------|--------------------|
| DATE 2020-08-07 DRAWN BY | Vertical, 4PPoE | FILE NAME | .X | UNIT: INCH [mm] | | MAGNETIC SOLUTIONS |
| DLIVER ZHANG | PATENTED | 98562 C215 C7 - AMMERICANO C | .xx | SCALE : N/A | a bel grou | |
| DATE 2020-08-07 | I HILNILD | G55-122N-155_PB,DWG | .XXX ±0.004 | SIZE : A4 | | |

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REV. :

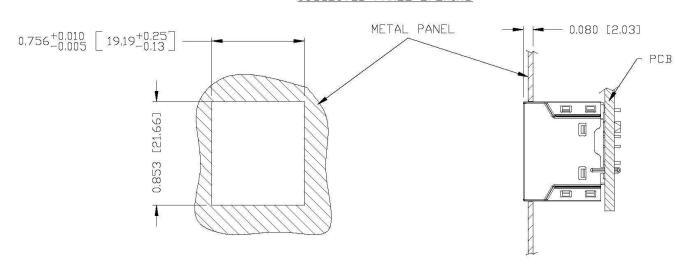
PB

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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-T1(TOP)

0200M9999-T0(BOTTOM)

PACKING QUANTITY: 50 PCS FINISHED GOODS PER TRAY

9 TRAYS (450 PCS FINISHED GOODS) PER CARTON BOX

NOTER: CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKIING TRAY INSIDE CARTON BOX (INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

| | | | | | | REV. : | PB | PAGE : | 5 |
|---------------------------------|--|--------------------------------------|--------------------|--------------|----------------------------|------------------------|-------------|-----------|-------------------|
| ORIGINATED BY LI QUANKUN | TITLE | PART NO. / DRAWING NO. G55-122N-155 | STANDAR TOL. IN | STATE STREET | [] METRIC DIM. AS REF. | AND THE REAL PROPERTY. | | | |
| DATE 2020-08-07 DRAWN BY | 10 gigabit MagJack [®] Vertical, 4PPoE | FILE NAME | .х | | UNIT : INCH [mm] | . • | DE | MA SOI | GNETIC LUTIONS |
| DLIVER ZHANG Date 2020-08-07 | PATENTED | G55-122N-155_PB,DWG | .XXX | | SCALE: N/A SIZE: A4 | 1 | a bel group | | |

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