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| LED1 POLARITY | | | LED2 POLARITY | | |
|---------------|--------|--------|---------------|--------|--------|
| PIN 13 | PIN 14 | COLOR | PIN 15 | PIN 16 | COLOR |
| - | + | YELLOW | + | - | ORANGE |
| | | | - | + | GREEN |

ELECTRICAL CHARACTERISTICS @ 25°C

TRANSFORMER RATIO

| | |
|-----|---------------------|
| TP1 | 1CT : 1CT $\pm 2\%$ |
| TP2 | 1CT : 1CT $\pm 2\%$ |
| TP3 | 1CT : 1CT $\pm 2\%$ |
| TP4 | 1CT : 1CT $\pm 2\%$ |

DCL @ 100kHz/100mVRMS

8mA DC BIAS

INS. LOSS

| | |
|------------------|-------------|
| 0.1MHz TO 1MHz | -1.1 dB MAX |
| 1MHz TO 65MHz | -0.5 dB MAX |
| 65MHz TO 100MHz | -0.8 dB MAX |
| 100MHz TO 125MHz | -1.2 dB MAX |

RET. LOSS (MIN)

| | |
|--------------|-----------------------|
| 0.5MHz-40MHz | -18 dB |
| 40MHz-100MHz | -12+20LOG(f/80MHz) dB |

CROSS TALK

| | |
|----------------|-----------|
| 1MHz - 60MHz | -30dB MIN |
| 60MHz - 100MHz | -25dB MIN |

CM TO CM REJ

| | |
|-----------------|------------|
| 100kHz - 100MHz | -30 dB MIN |
| CM TO DM REJ | -35 dB MIN |

100kHz - 100MHz

| | |
|---|----------------------|
| HIPOT (Isolation Voltage): | 1500 Vrms or 2250VDC |
| 100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS. | |

LED 1

| | |
|--------------------------|---------------------------|
| VF (FORWARD VOLTAGE) | IF=20mA YELLOW 2.1V TYP. |
| AD (DOMINANT WAVELENGTH) | IF=20mA YELLOW 590nm TYP. |

LED 2

| | |
|--------------------------|--------------------------|
| VF (FORWARD VOLTAGE) | IF=20mA GREEN 2.2V TYP. |
| AD (DOMINANT WAVELENGTH) | IF=20mA GREEN 570nm TYP. |
| | ORANGE 2.0V TYP. |
| | ORANGE 610nm TYP. |

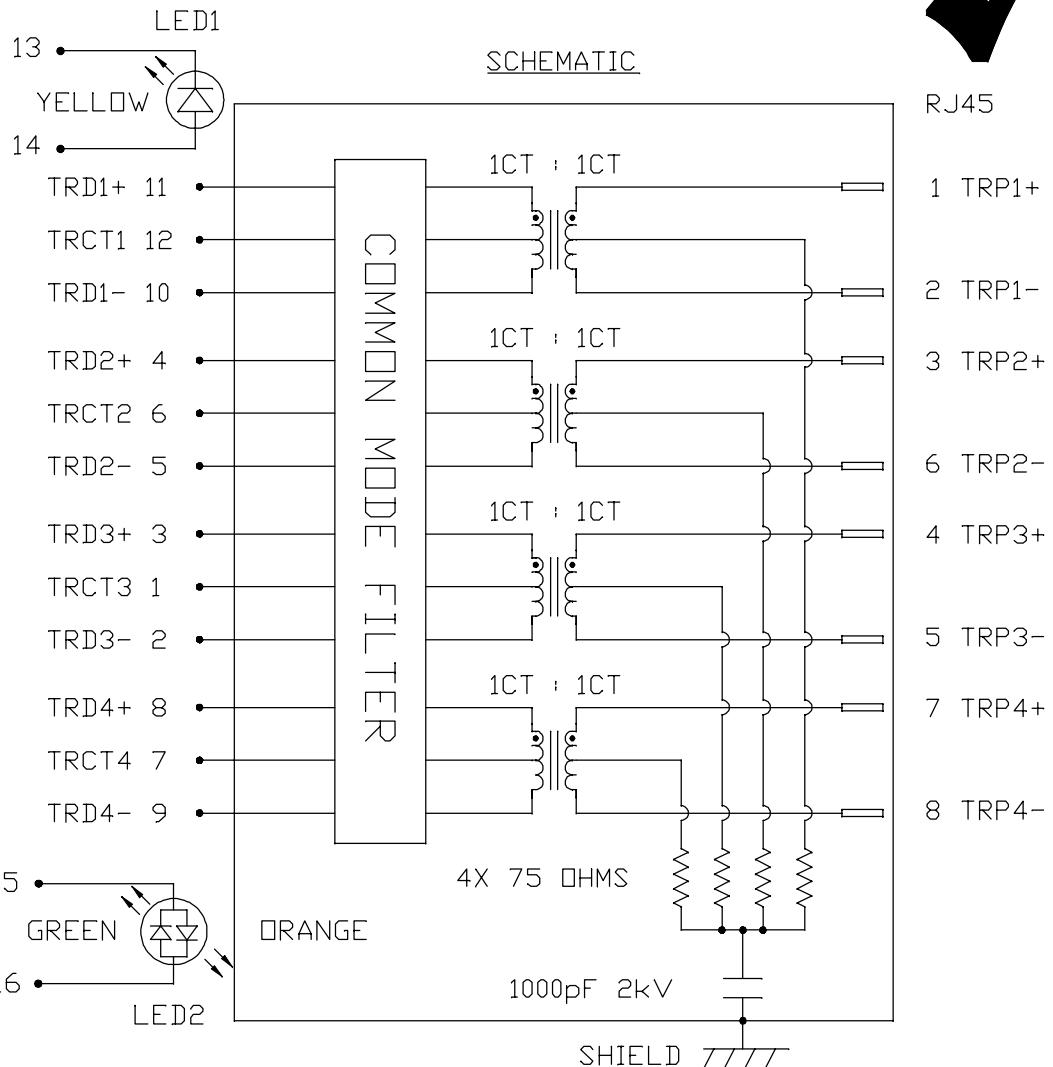
OPERATING TEMPERATURE: 0°C TO +70°C.

ORIGINATED BY
CHOW WANCHUNG
DATE 2016-08-11

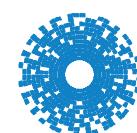
DRAWN BY
SKY YIU
DATE 2016-08-11

TITLE
gigabit MagJack®
(8 cores, Tab Up)
08261-1X1T-43-F
PATENTED

PART NO. / DRAWING NO.
08261X1T43-F
FILE NAME
08261X1T43-F_E.DWG



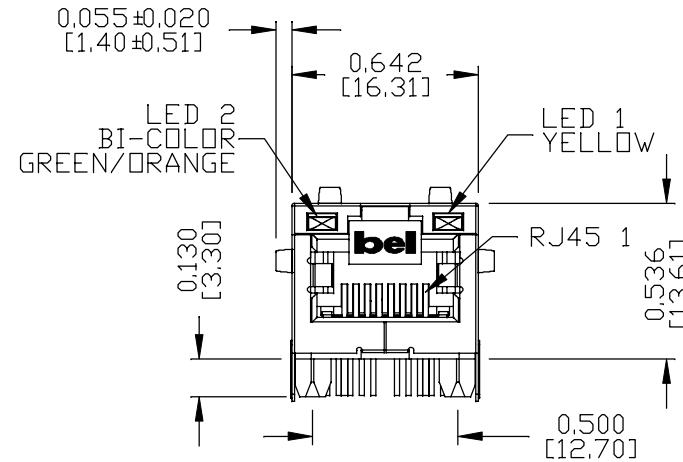
REV. : E PAGE : 2

 **bel** MAGNETIC SOLUTIONS
a bel group

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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.
30 MICRO-INCH MIN NICKEL UNDERPLATE.

OUTPUT 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)

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

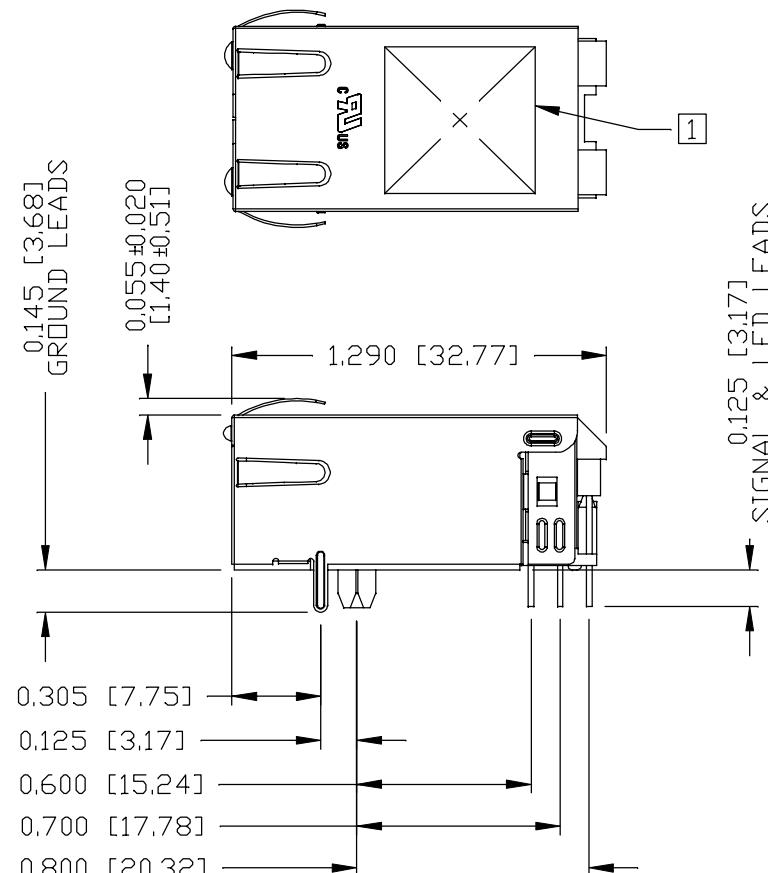
UL RECOGNIZED - FILE #E196366 AND E169987.

2. THE PRODUCT IS RoHS COMPLIANT.

3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

4. THE PRODUCT IS PATENTED. THE PATENT NUMBER IS U.S. PAT. 7,123,117.

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



0.125 [3.17]

0.600 [15.24]

0.700 [17.78]

0.800 [20.32]

REV. : E PAGE : 3

ORIGINATED BY
JESSE LI
DATE 2016-08-11

DRAWN BY
JOLLY LUO
DATE 2016-08-11

TITLE

gigabit MagJack®
(8 cores, Tab Up)
0826-1X1T-43-F
PATENTED

PART NO. / DRAWING NO.

08261X1T43-F

FILE NAME

08261X1T43-F_E.DWG

STANDARD DIM.
TOL. IN INCH

[] METRIC DIM.
AS REF.

.X

UNIT : INCH [mm]

.XX

SCALE : N/A

.XXX

±0.010

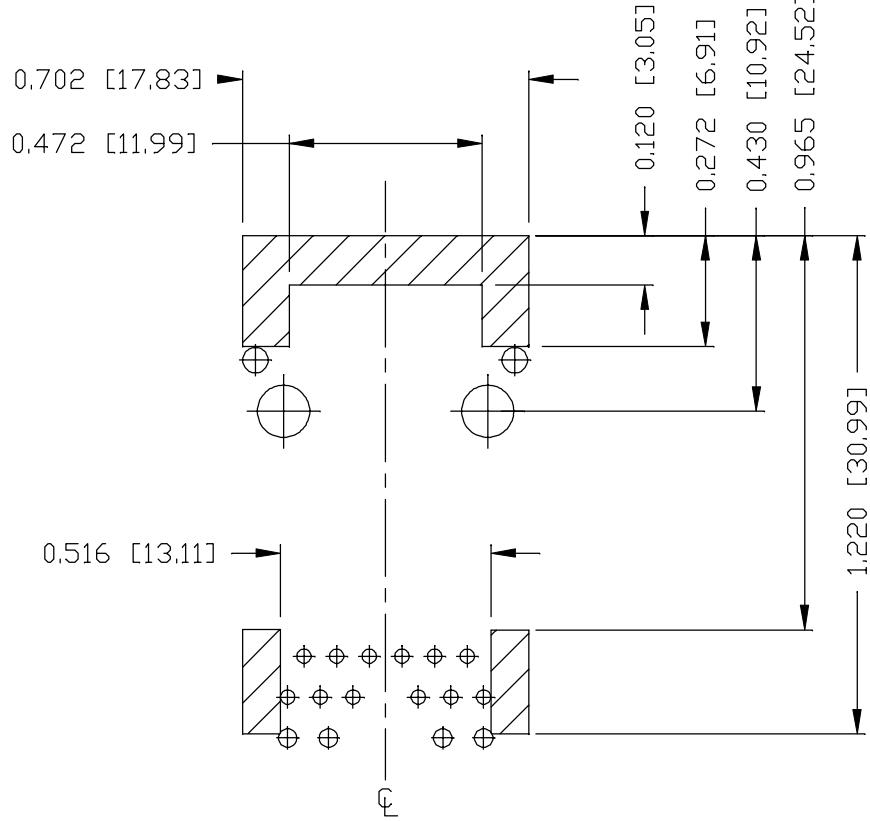
SIZE : A4



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RoHS

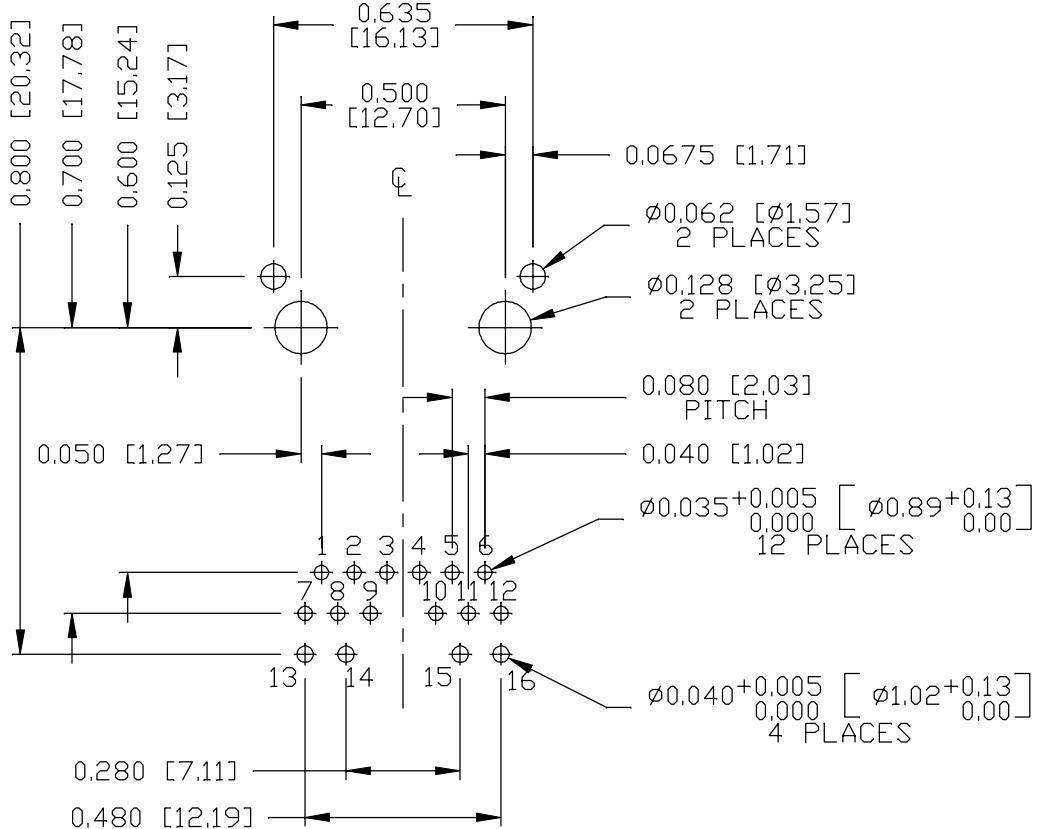


NOTES

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

RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW



| | |
|---------------------------|---------------------------------------|
| ORIGINATED BY JESSE LI | TITLE |
| DATE 2016-08-11 | gigabit MagJack® (8 cores, Tab Up) |
| DRAWN BY JOLLY LUO | 0826-1X1T-43-F |
| DATE 2016-08-11 | PATENTED |

PART NO. / DRAWING NO.

08261X1T43-F

FILE NAME

08261X1T43-F_E.DWG

| STANDARD DIM. TOL. IN INCH | | [] METRIC DIM. AS REF. |
|-------------------------------|--------|----------------------------|
| .X | | UNIT : INCH [mm] |
| .XX | | SCALE : N/A |
| .XXX | ±0.004 | SIZE : A4 |

REV. : E PAGE : 4

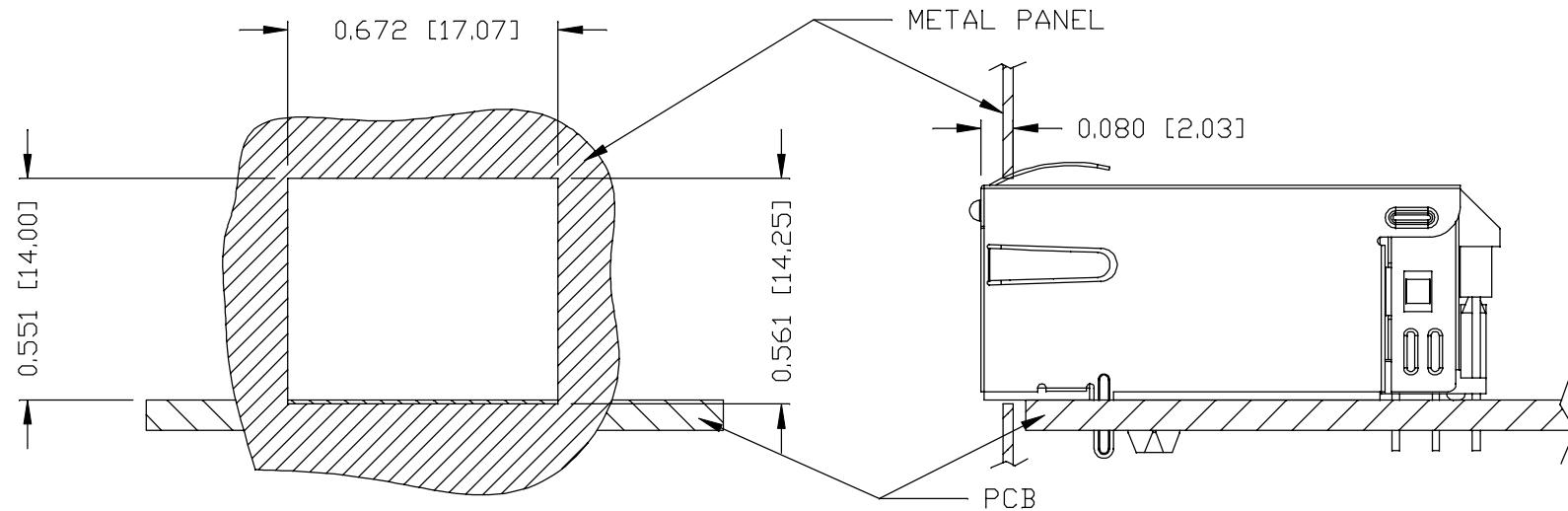


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RoHS



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-F6 (TOP)
0200-9999-F7 (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)

| REV. : | E | PAGE : | 5 |
|---------------|--|--------|---|
| ORIGINATED BY | | | |
| JESSE LI | | | |
| DATE | 2016-08-11 | | |
| DRAWN BY | | | |
| JOLLY LUO | | | |
| DATE | 2016-08-11 | | |
| | bel MAGNETIC SOLUTIONS a bel group | | |

| | |
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| ORIGINATED BY | TITLE |
| JESSE LI | gigabit MagJack® (8 cores, Tab Up) |
| DATE | 2016-08-11 |
| DRAWN BY | 0826-1X1T-43-F |
| JOLLY LUO | PATENTED |
| DATE | 2016-08-11 |

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bel:

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