RoHS ✓

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

ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO
  TP1   1CT : 1CT ±2%
  TP2   1CT : 1CT ±2%
  TP3   1CT : 1CT ±2%
  TP4   1CT : 1CT ±2%
OCL @ 100kHz/100mVRMS
  8mA DC BIAS   350µH MIN.
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
  100kHz − 100MHz   −35 dB MIN
HIPOT (Isolation Voltage):   1500 Vrms or 2250VDC

  100% OF PRODUCTION TESTED TO COMPLY WITH
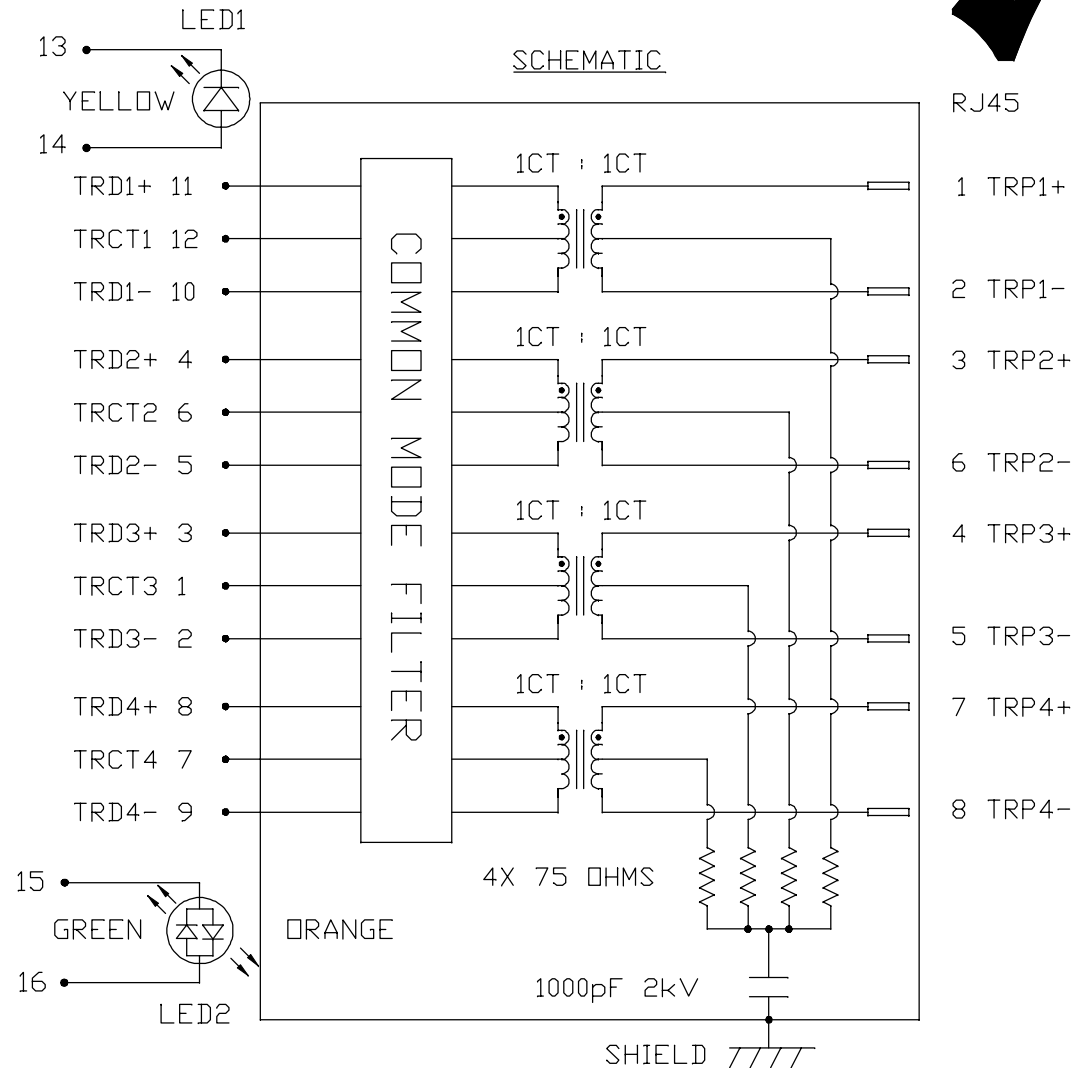 IEEE 802.3 ISOLATION REQUIREMENTS.
LED 1
  VF (FORWARD VOLTAGE)   IF=20mA YELLOW 2.1V TYP.
  λD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.
LED 2
  VF (FORWARD VOLTAGE)   IF=20mA GREEN 2.2V TYP.
                                     ORANGE 2.0V TYP.
  λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.
                                     ORANGE 610nm TYP.

OPERATING TEMPERATURE: 0°C TO +70°C.

SCHEMATIC

RJ45

ORIGINATED BY	CHOW WANCHUNG
DATE	2016-08-11
DRAWN BY	SKY YOU
DATE	2016-08-11

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

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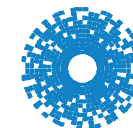FILE NAME: 08261X1T43-F_E.DWG

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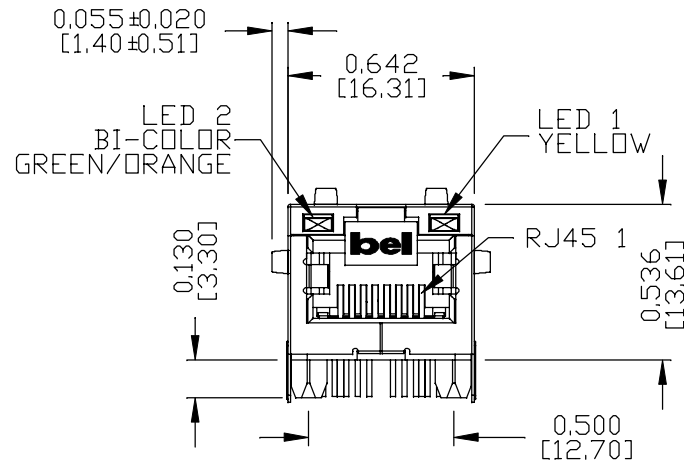UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : E   PAGE : 2

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MECHANICAL SPECIFICATION

RoHS ✓

0.055±0.020
[1.40±0.51]

0.642
[16.31]

LED 2
BI-COLOR
GREEN/ORANGE

LED 1
YELLOW

0.130
[3.30]

RJ45 1

0.536
[13.61]

0.500
[12.70]

bel

1

0.145 [3.68]
GROUND LEADS

0.055±0.020
[1.40±0.51]

1.290 [32.77]

0.125 [3.17]
SIGNAL & LED LEADS

0.305 [7.75]

0.125 [3.17]

0.600 [15.24]

0.700 [17.78]

0.800 [20.32]

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)

1, MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND PATENTED,
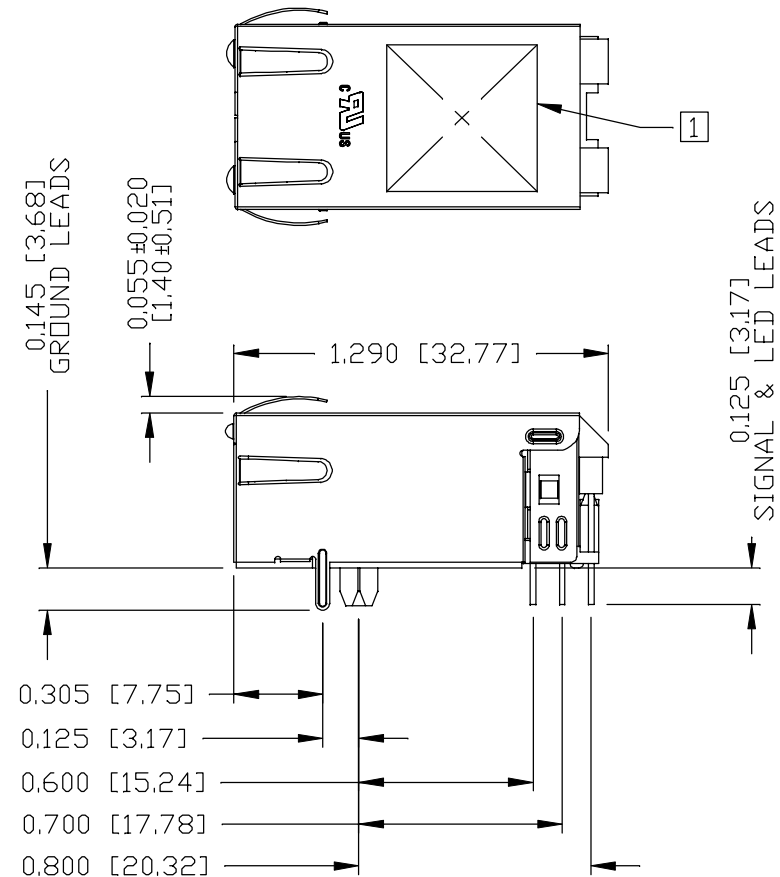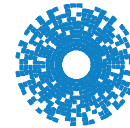
cᴿᵁᵁˢ UL RECOGNIZED – FILE #E196366 AND E169987,

2, THE PRODUCT IS RoHS COMPLIANT,

3, JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS,

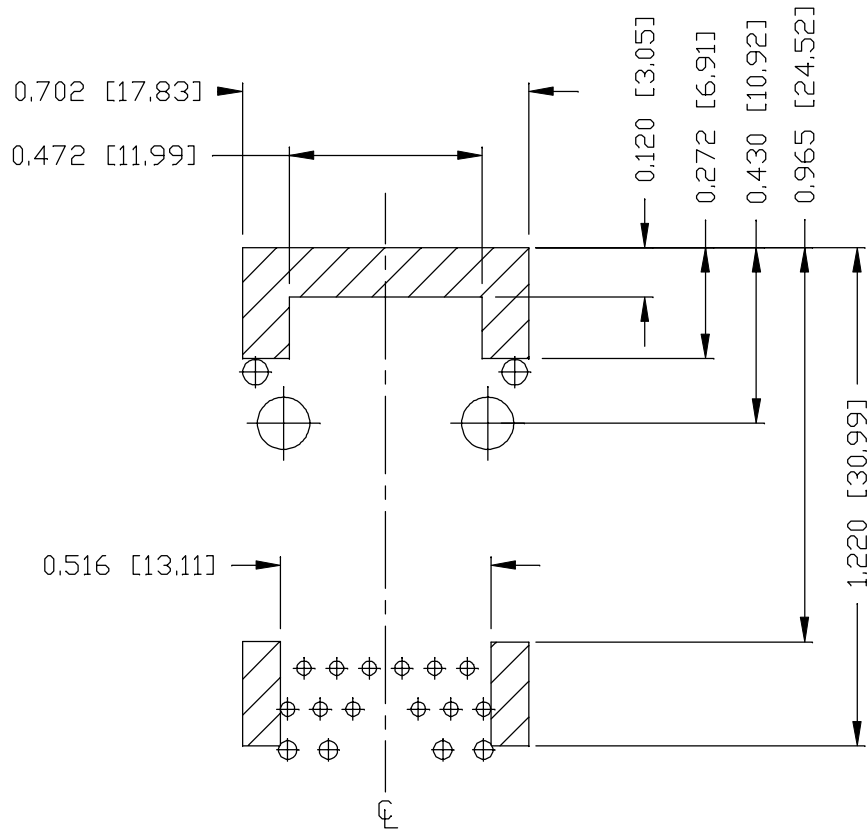4, THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S. PAT, 7,123,117,

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

| REV. : | E | PAGE : | 3 |

ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	
JESSE LI	gigabit MagJack® (8 cores, Tab Up) 0826-1X1T-43-F PATENTED	08261X1T43-F	.X		bel MAGNETIC SOLUTIONS a bel group
DATE 2016-08-11			.XX	UNIT : INCH [mm]	
DRAWN BY JOLLY LUO		FILE NAME		SCALE : N/A	
DATE 2016-08-11		08261X1T43-F_E.DWG	.XXX ±0.010	⊕ ⊳⊲ SIZE : A4	

RoHS ✓

RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW

0.702 [17.83]

0.472 [11.99]

0.120 [3.05]
0.272 [6.91]
0.430 [10.92]
0.965 [24.52]

1.220 [30.99]

0.516 [13.11]

0.635 [16.13]

0.500 [12.70]

0.800 [20.32]
0.700 [17.78]
0.600 [15.24]
0.125 [3.17]

0.0675 [1.71]

Ø0.062 [Ø1.57] 2 PLACES

Ø0.128 [Ø3.25] 2 PLACES

0.080 [2.03] PITCH

0.050 [1.27]

0.040 [1.02]

$\emptyset 0.035 ^{+0.005}_{0.000} [\emptyset 0.89 ^{+0.13}_{0.00}]$ 12 PLACES

1 2 3 4 5 6
7 8 9 10 11 12
13 14 15 16

$\emptyset 0.040 ^{+0.005}_{0.000} [\emptyset 1.02 ^{+0.13}_{0.00}]$ 4 PLACES

0.280 [7.11]

0.480 [12.19]

NOTES

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

ORIGINATED BY JESSE LI DATE 2016-08-11	TITLE gigabit MagJack® (8 cores, Tab Up) 0826-1X1T-43-F PATENTED	PART NO. / DRAWING NO. 08261X1T43-F
DRAWN BY JOLLY LUO DATE 2016-08-11		FILE NAME 08261X1T43-F_E.DWG

REV. : E   PAGE : 4

STANDARD DIM. TOL. IN INCH

[ ] METRIC DIM. AS REF.

.X
.XX   ±0.004
.XXX   ±0.004

UNIT : INCH [mm]
SCALE : N/A
SIZE : A4
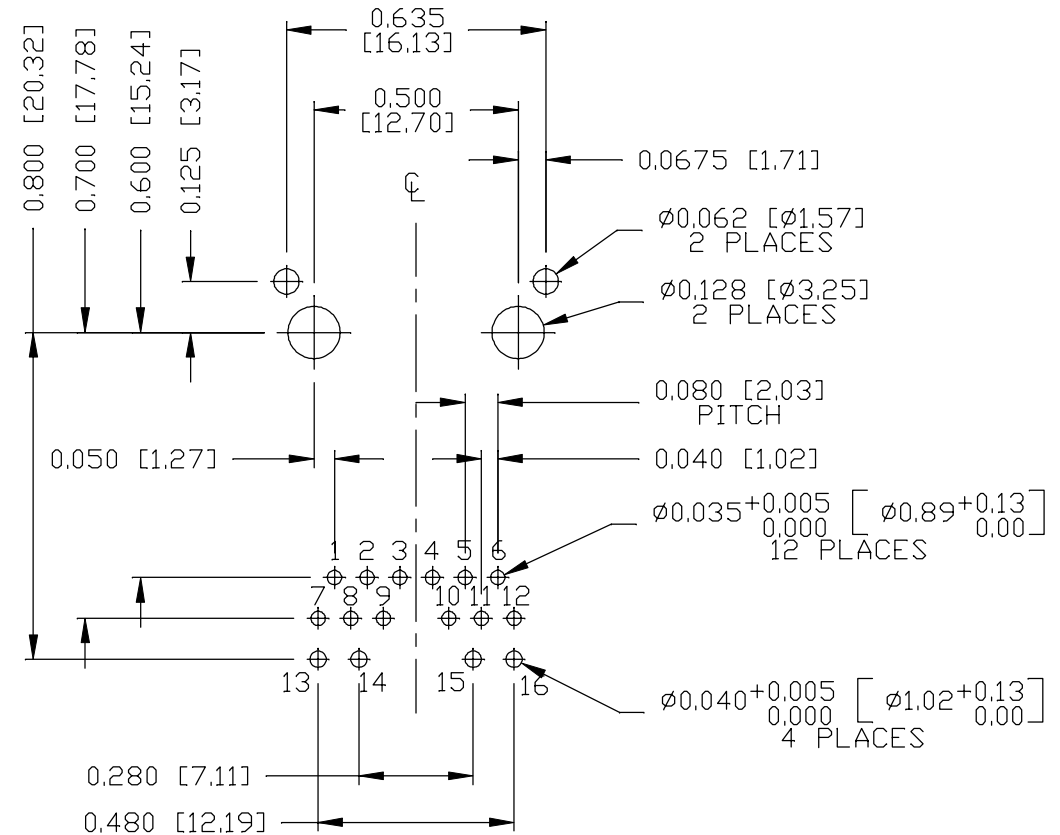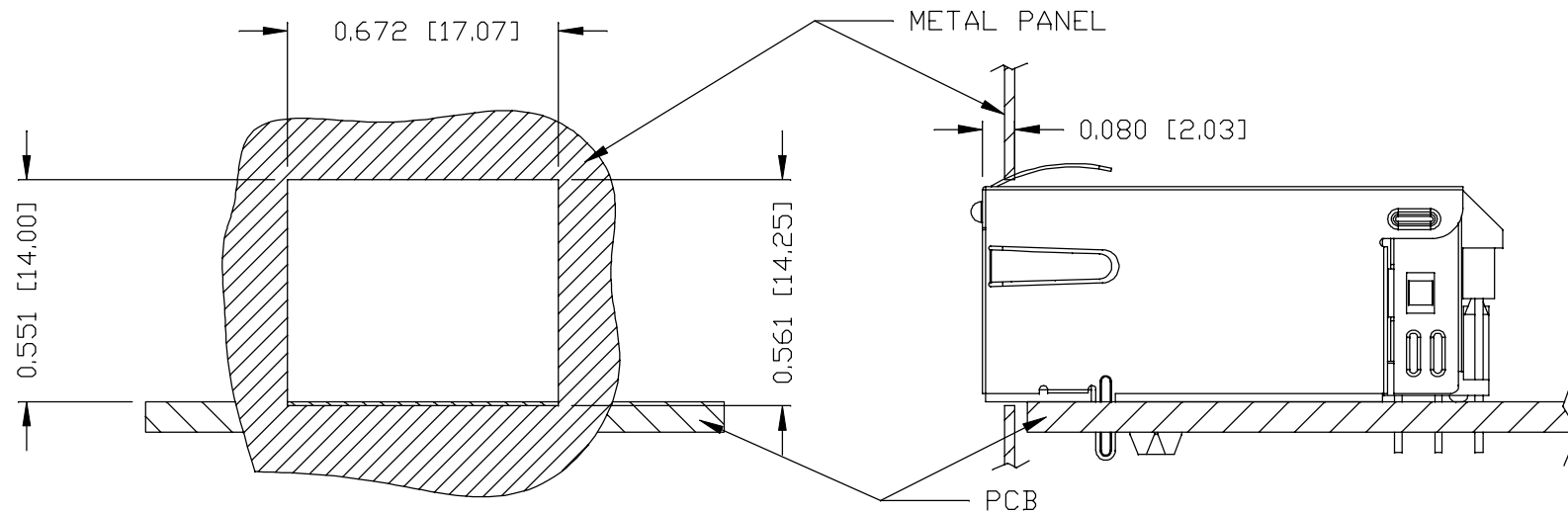
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RoHS

SUGGESTED PANEL OPENING

METAL PANEL

0.672 [17.07]

0.080 [2.03]

0.551 [14.00]

0.561 [14.25]

PCB

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	TITLE gigabit MagJack® (8 cores, Tab Up) 0826-1X1T-43-F PATENTED	PART NO. / DRAWING NO. 08261X1T43-F	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.
		FILE NAME 08261X1T43-F_E.DWG	.X	UNIT : INCH [mm]
			.XX	SCALE : N/A
			.XXX ±0.004	SIZE : A4

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DC002(2)120214

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