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RoHS



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

#### ELECTRICAL CHARACTERISTICS @ 25°C

##### URNS RATIO

TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%

##### CL @ 100kHz/100mVRMS

8mA DC BIAS	350µH MIN.
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##### 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

100kHz - 100MHz	-33+20LOG(f/100MHz)dB MIN
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##### CM TO CM REJ

100kHz - 100MHz	-30 dB MIN
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##### CM TO DM REJ

100kHz - 100MHz	-35 dB MIN
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##### HIPOT (Isolation Voltage):

1500 Vrms	100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.
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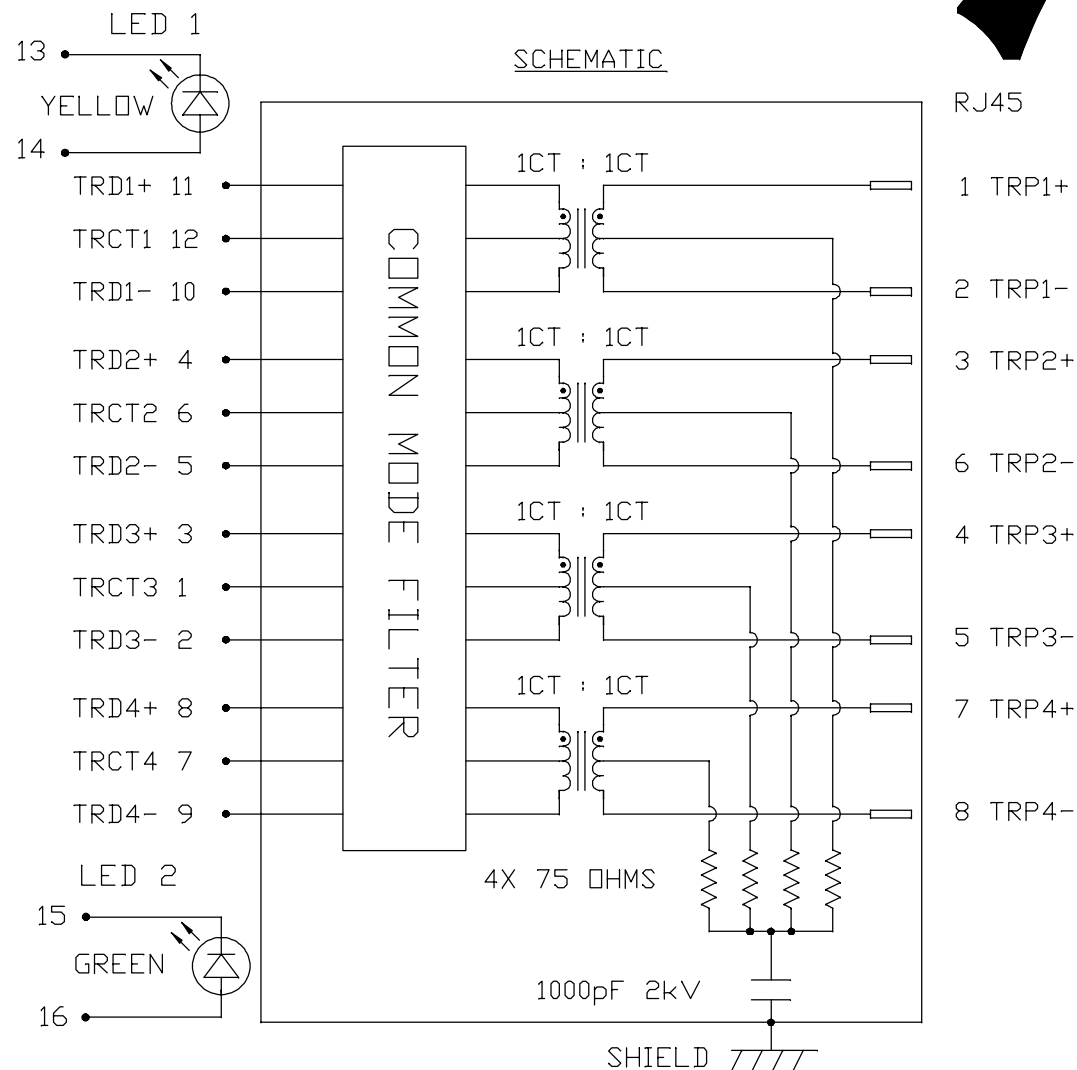
##### LED 1

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.
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 570nm TYP.

OPERATING TEMPERATURE: 0°C TO +70°C.



RJ45

1 TRP1+

2 TRP1-

3 TRP2+

6 TRP2-

4 TRP3+

5 TRP3-

7 TRP4+

8 TRP4-

ORIGINATED BY  
CHOW WANCHUNG  
DATE 2016-08-09

DRAWN BY  
SKY YOU  
DATE 2016-08-09

TITLE  
gigabit MagJack®  
(8 cores, Tab Up)  
0826-1A1T-43-F  
PATENTED

PART NO. / DRAWING NO.  
08261A1T43-F

FILE NAME  
08261A1T43-F\_D.DWG

STANDARD DIM.  
TOL. IN INCH [ ] METRIC DIM.  
AS REF.

.X  
.XX  
.XXX  
UNIT : INCH [mm]  
SCALE : N/A  
SIZE : A4

REV. : D

PAGE : 2

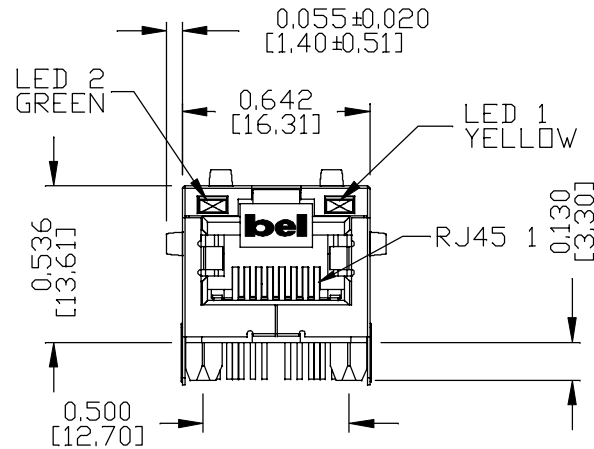


a bel group

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## MECHANICAL SPECIFICATION

RoHS



### 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.



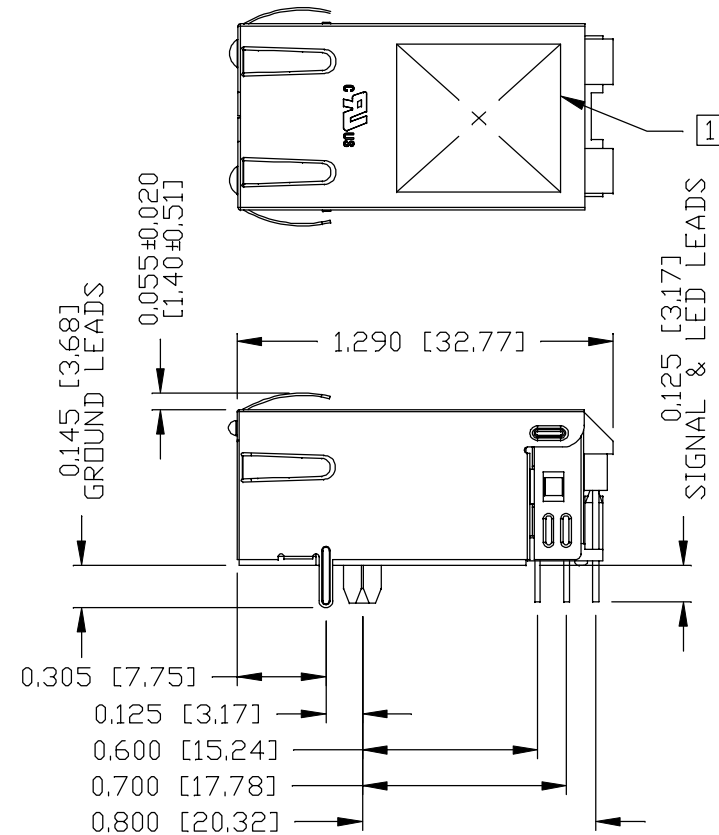
UL RECOGNIZED - FILE #E196366 AND E169987.

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.



ORIGINATED BY  
JESSE LI  
DATE 2016-08-09

DRAWN BY  
JOLLY LUO  
DATE 2016-08-09

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0826-1A1T-43-F  
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PART NO. / DRAWING NO.  
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FILE NAME  
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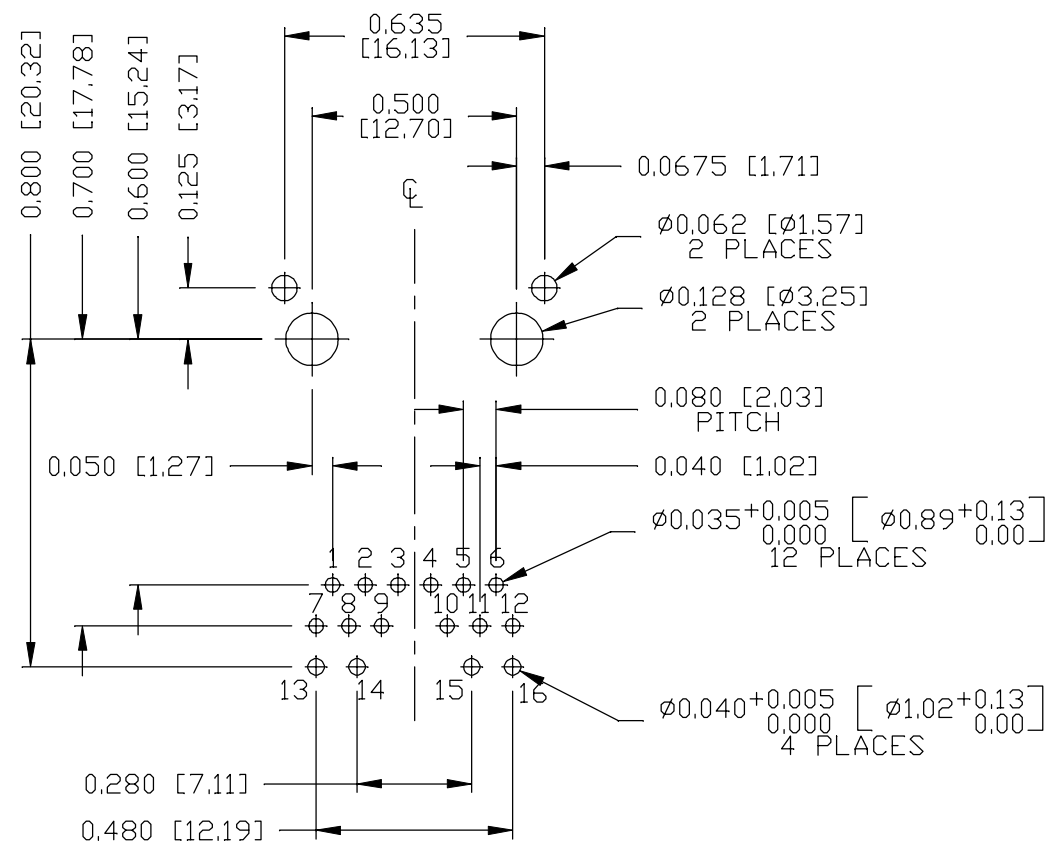
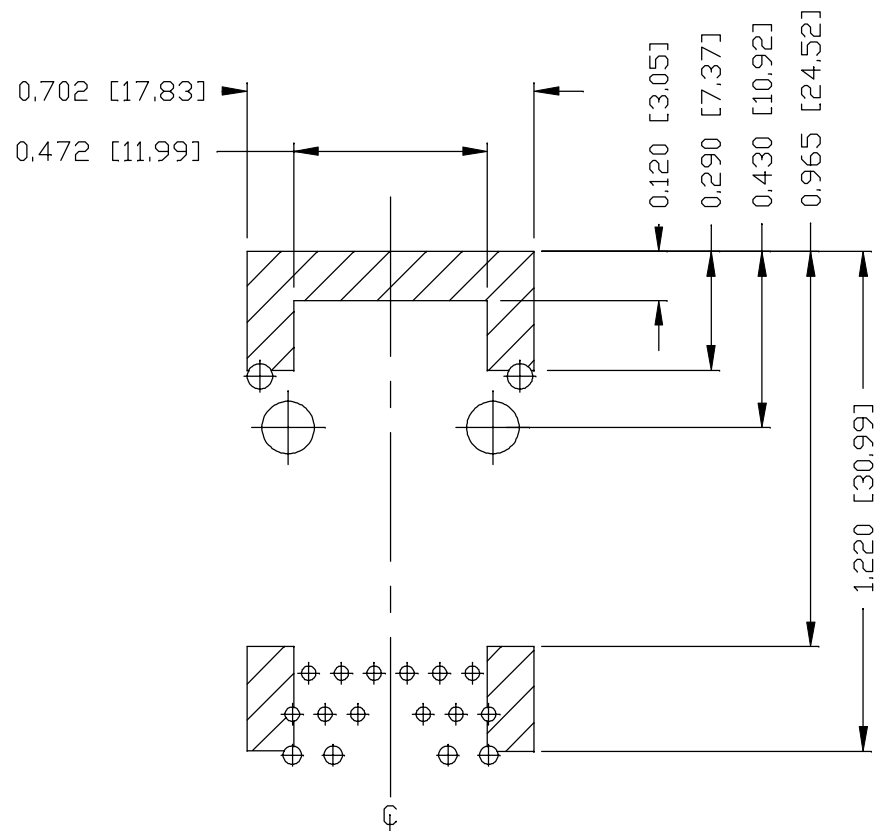
STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.	
.X		UNIT : INCH [mm]	
.XX		SCALE : N/A	
.XXX	±0.010	SIZE : A4	

REV. : D PAGE : 3



# RECOMMENDED PCB FOOTPRINT

## COMPONENT SIDE VIEW



### NOTES

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

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FILE NAME  
08261A1T43-F\_D.DWG

STANDARD DIM.  
TOL. IN INCH

.X  
.XX  
.XXX

[ ] METRIC DIM.  
AS REF.

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

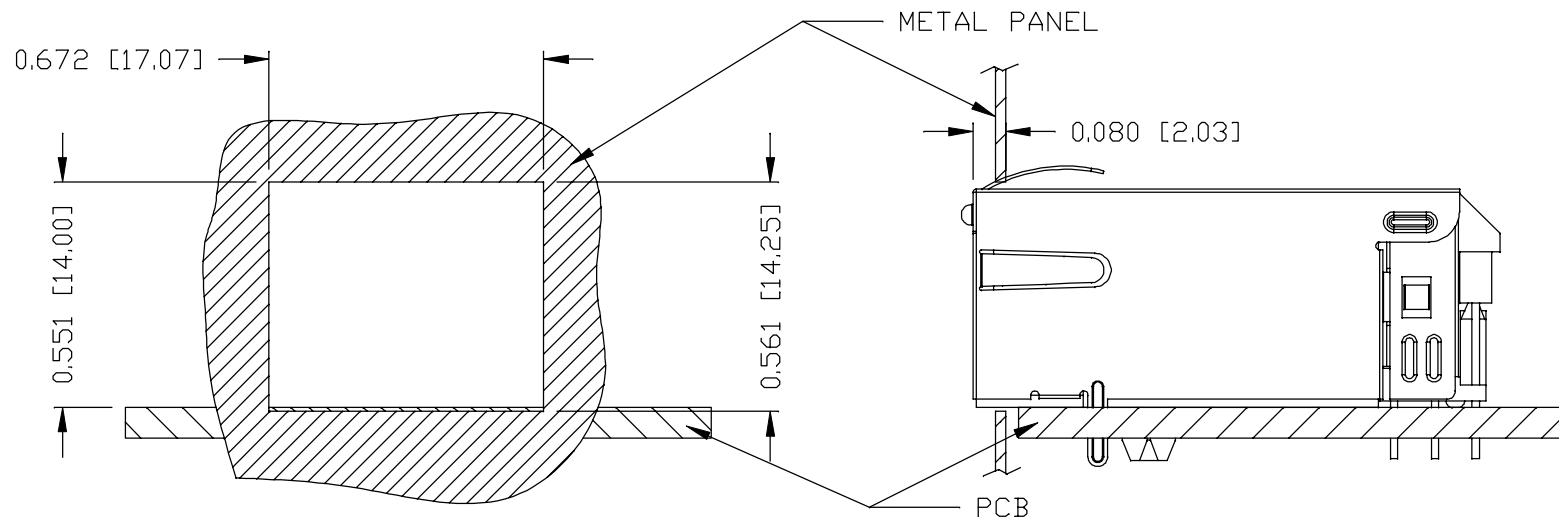
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### SUGGESTED PANEL OPENING



### 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. : D	PAGE : 5
 <b>bel</b> MAGNETIC SOLUTIONS a bel group	

ORIGINATED BY JESSE LI DATE 2016-08-09	TITLE  gigabit MagJack® (8 cores, Tab Up) 0826-1A1T-43-F PATENTED	PART NO. / DRAWING NO.  08261A1T43-F	STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.	
DRAWN BY JOLLY LUO DATE 2016-08-09		FILE NAME  08261A1T43-F_D.DWG	.X		UNIT : INCH [mm]	
			.XX		SCALE : N/A	
			XXX	±0.004		SIZE : A4

# Mouser Electronics

Authorized Distributor

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

Bel:

[0826-1A1T-43-F](#)