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LED1 POLARITY			LED2 POLARITY			
PIN 13	PIN 14	COLOR	PIN 15	PIN 16	PIN 17	COLOR
-	+	YELLOW	-	+	/	ORANGE
/	/	/	/	+	-	GREEN

RoHS



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 (0°C - 70°C)	180 µH MIN.
19mA DC BIAS (0°C - 70°C)	120 µH MIN.

INS. LOSS

1MHz TO 150MHz	-0.004(fMHz)-0.4 dB MAX
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RET. LOSS

1MHz-40MHz	-20 dB MIN
40.1MHz-150MHz	-20+15LOG(f/40MHZ) dB MIN

CROSSTALK

1MHz - 40MHz	-35 dB MIN
40.1MHz-150MHz	-35+15LOG(f/40MHZ) dB MIN

CM TO CM REJ

1MHz - 150MHz	-25 dB MIN
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HIPOT (Isolation Voltage):

2250 VDC

100% OF PRODUCTION TESTED TO COMPLY WITH

IEEE 802.3 ISOLATION REQUIREMENTS.

OPERATING TEMPERATURE:

0°C TO +70°C

LED 1

V_F (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.

λ_D (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

LED 2

V_F (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

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

ORANGE 2.0V TYP.

ORANGE 605nm TYP.

PIN

LED 1

13

YELLOW

14

TRD1+

11

TRCT1

12

TRD1-

10

TRD2+

4

TRCT2

6

TRD2-

5

TRD3+

3

TRCT3

1

TRD3-

2

TRD4+

8

TRCT4

7

TRD4-

9

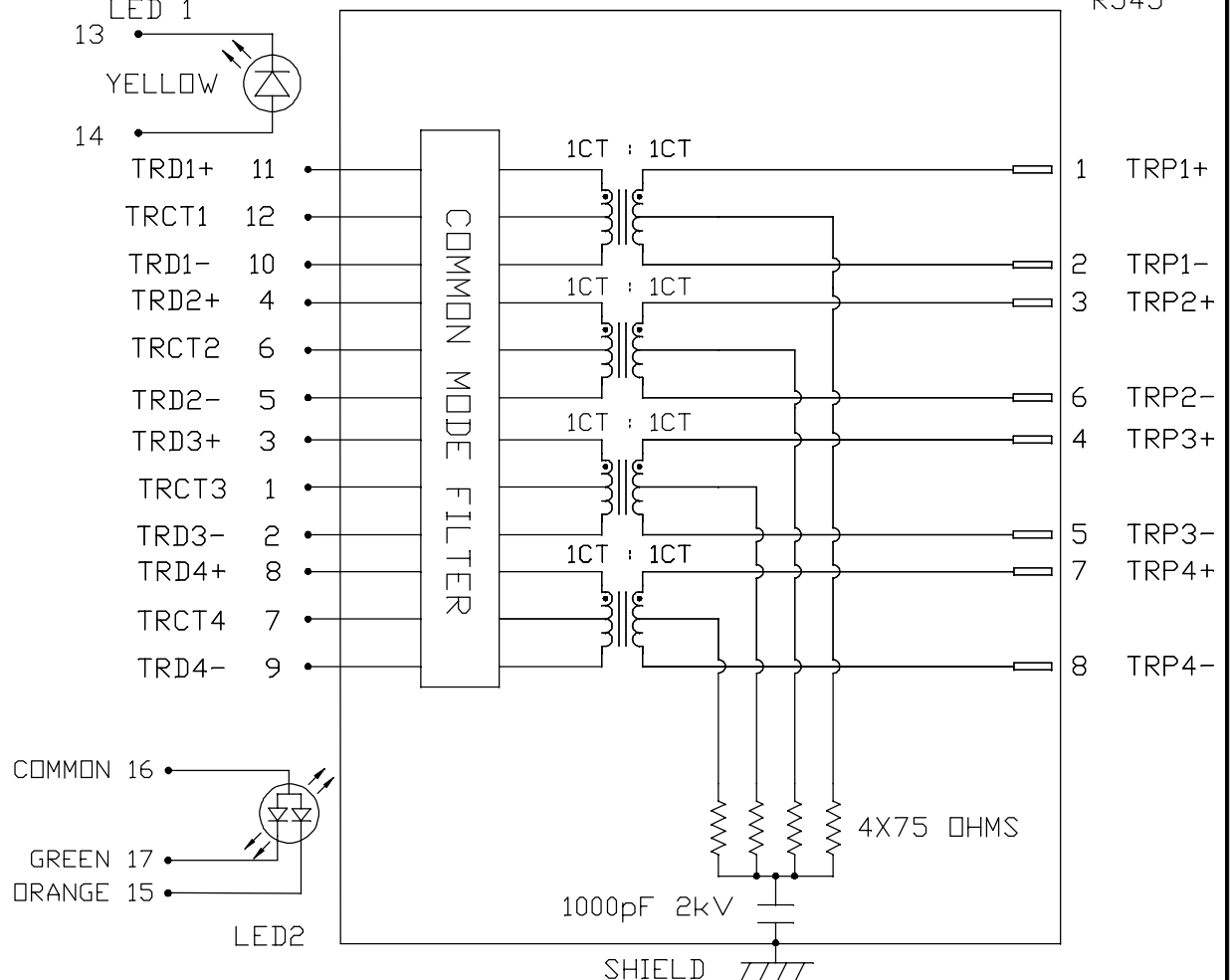
COMMON 16

LED2

GREEN 17

ORANGE 15

SCHEMATIC



RJ45

REV. : A

PAGE : 2

ORIGINATED BY
CHOW WANCHUNG
DATE 2016-09-02

DRAWN BY
LIN FENG LI
DATE 2016-09-02

TITLE
2.5 Gigabit MagJack®
(Ultra Low Profile)
PATENTED

PART NO. / DRAWING NO.
L829-1J1T-JM

FILE NAME
L829-1J1T-JM_A.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

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

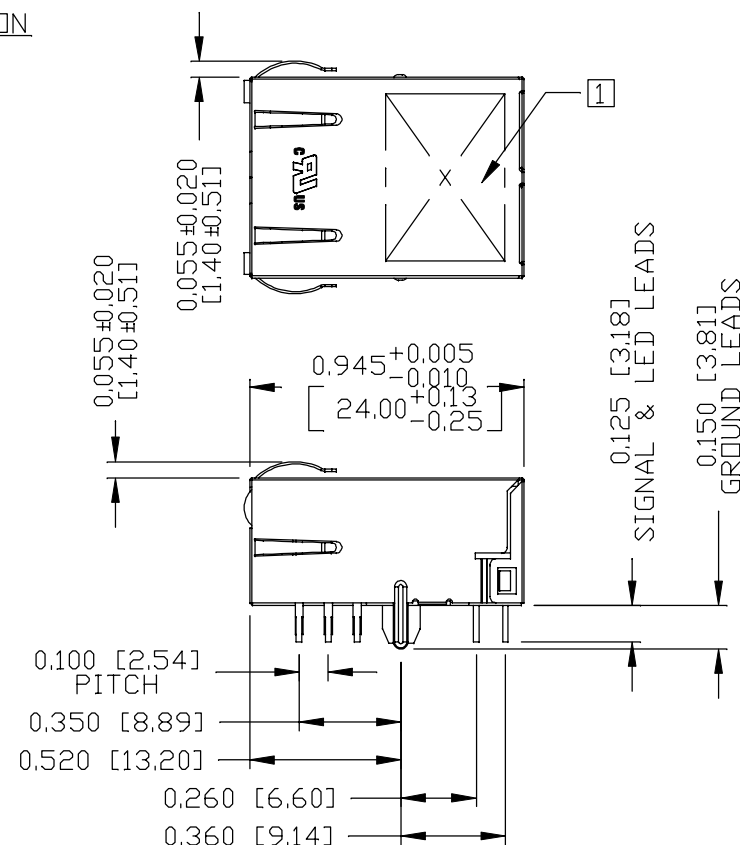
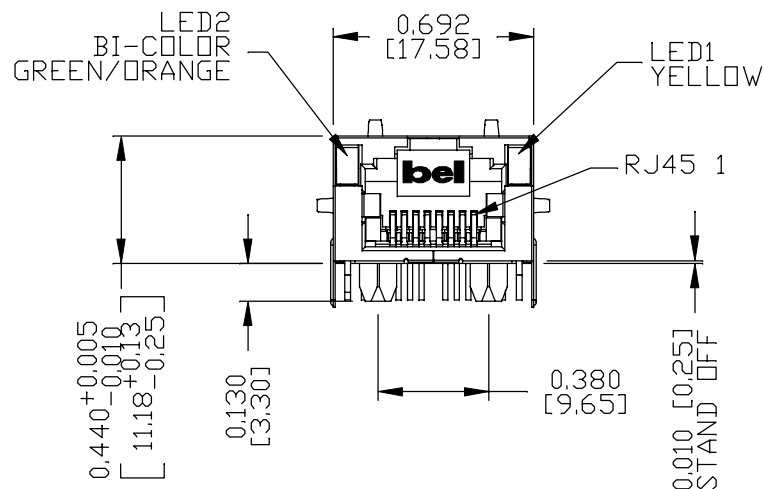


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MECHANICAL SPECIFICATION

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NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PA, BLACK
FLAMMABILITY RATING UL 94V-0
- CONTACTS: 30 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.
- THE PRODUCT IS RoHS COMPLIANT.

- JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS,
PART 68 SUBPART F.
- THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE
U.S. PAT. 7,123,117 AND U.S. PAT. 6,840,817.
- THE PART IS RECOMMENDED FOR WAVE SOLDERING.
THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS
260°C MAX AND 10 SECONDS MAX.

UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY ANTON LIAO DATE 2016-09-02	TITLE 2.5 Gigabit MagJack® (Ultra Low Profile) PATENTED	PART NO. / DRAWING NO. L829-1J1T-JM	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.	REV. : A PAGE : 3
DRAWN BY LIU DONGJUN DATE 2016-09-02		FILE NAME L829-1J1T-JM_A.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A SIZE : A4	
			±0.010		

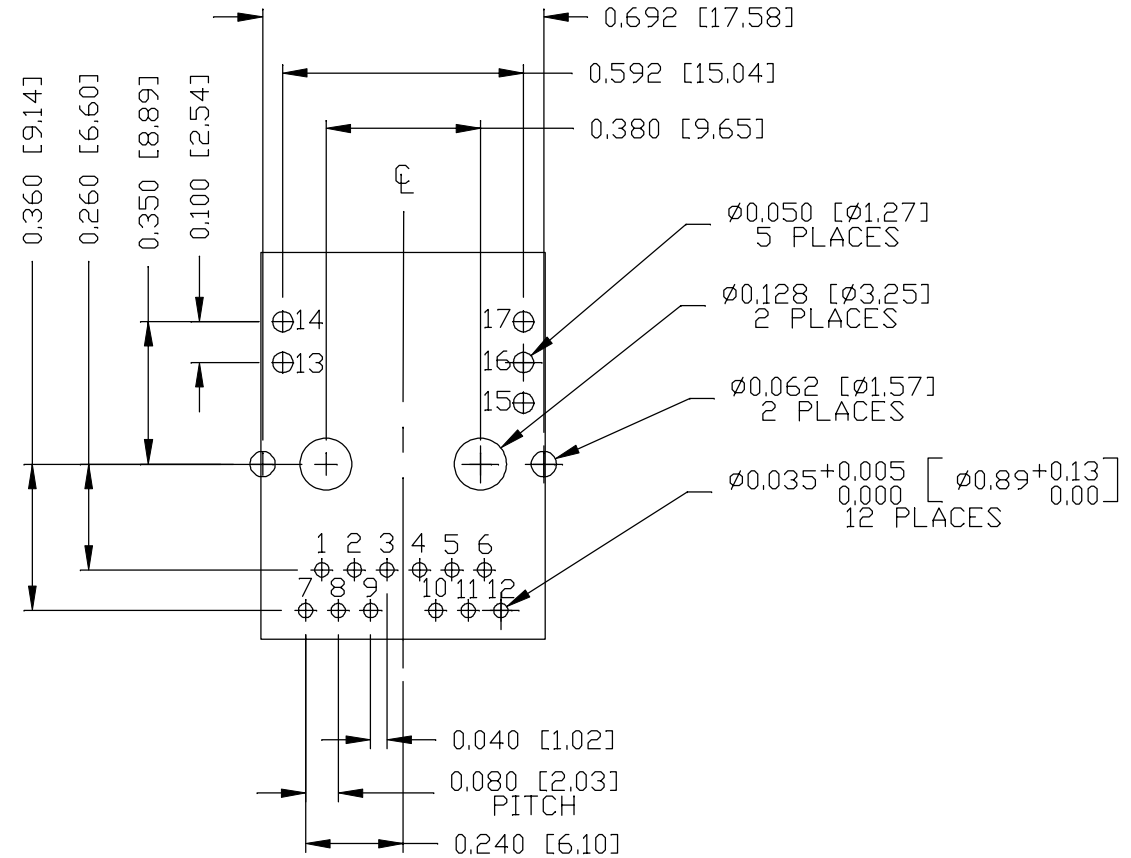
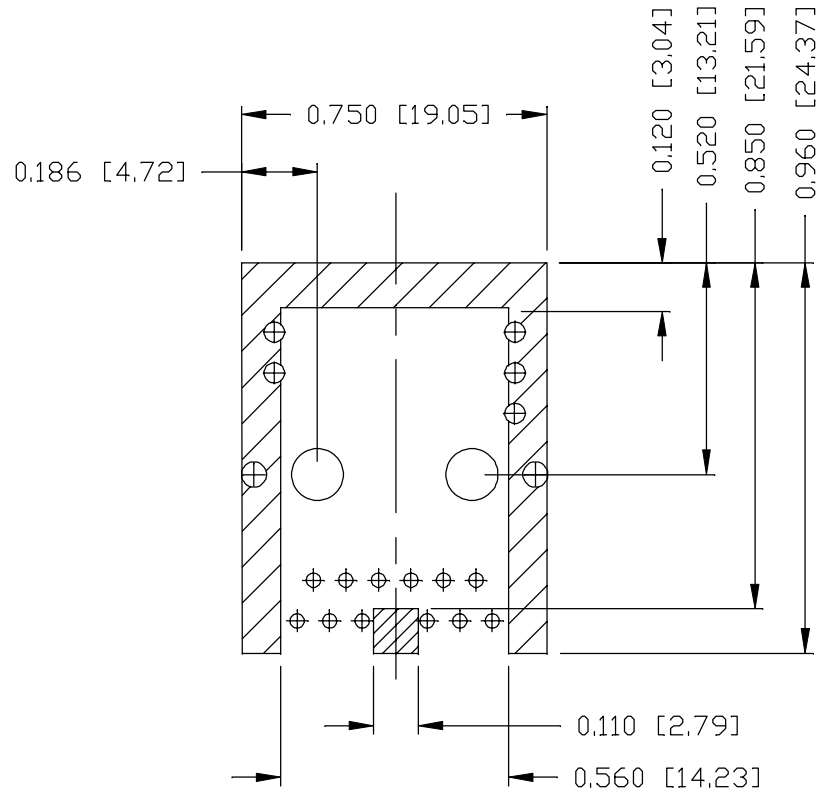
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RECOMMENDED PCB FOOTPRINT

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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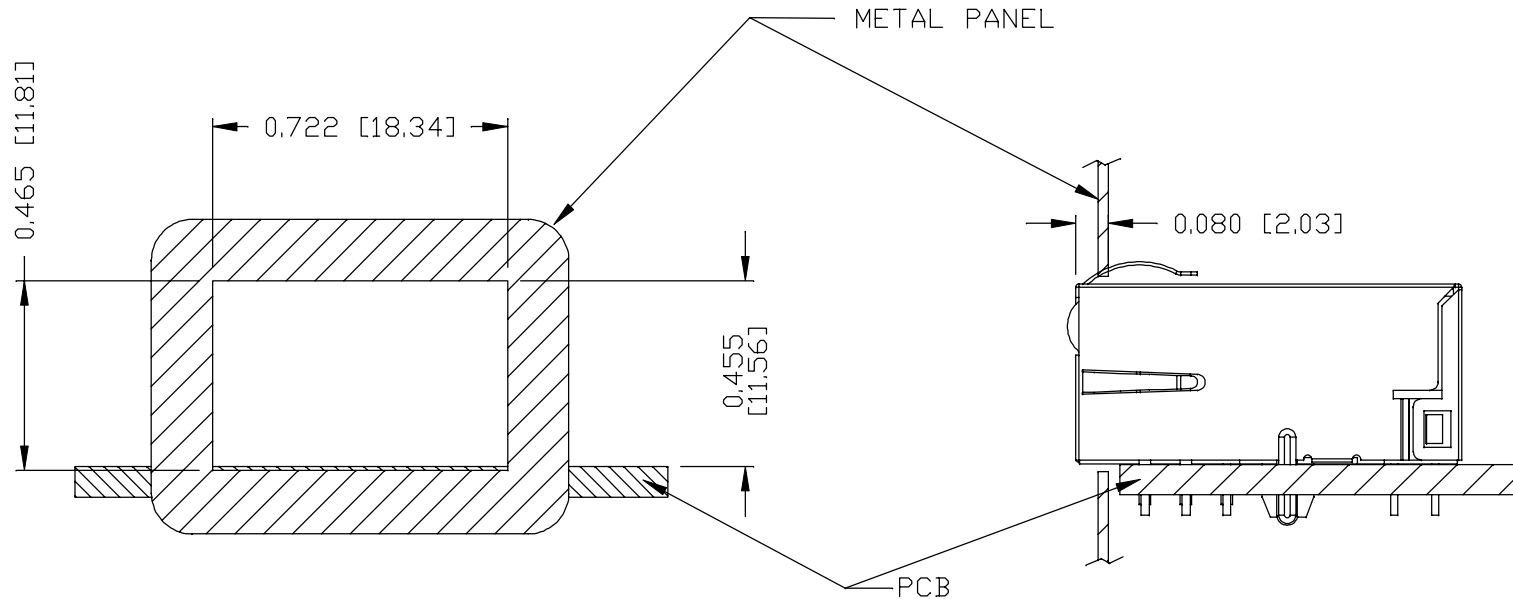
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SUGGESTED PANEL OPENING



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.

TRAY PACKING INFORMATION

PACKING TRAY : 0200-9999-E4 (TOP)
0200-9999-E5 (BOTTOM)

PACKING QUANTITY : 60 PCS FINISHED GOODS PER TRAY
11 TRAYS (660 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. : A PAGE : 5

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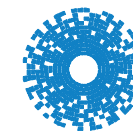
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.XXX	±0.004	SCALE : N/A
		SIZE : A4



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