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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

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.

ORANGE 2.0V TYP.

ORANGE 605nm TYP.

SCHEMATIC

PIN

LED 1

YELLOW

13

14

TRD1+

11

TRCT1

12

TRD1-

10

TRD2+

4

TRCT2

6

TRD2-

5

TRD3+

3

TRCT3

1

TRD3-

2

TRD4+

8

TRCT4

7

TRD4-

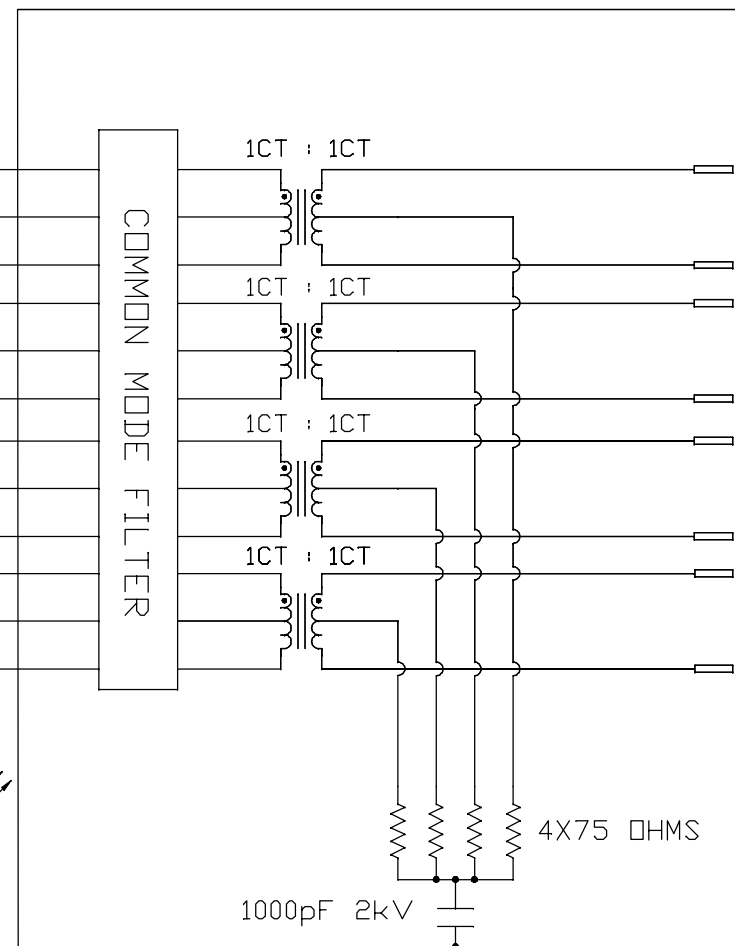
9

COMMON 16

LED2

GREEN 17

ORANGE 15



RJ45

1 TRP1+

2 TRP1-

3 TRP2+

6 TRP2-

4 TRP3+

5 TRP3-

7 TRP4+

8 TRP4-

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.

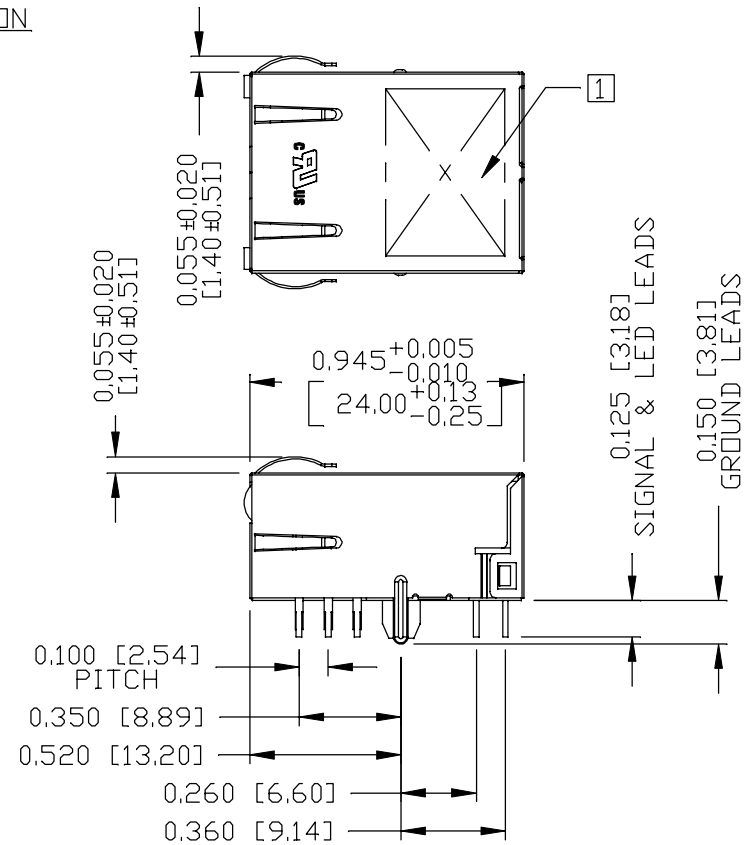
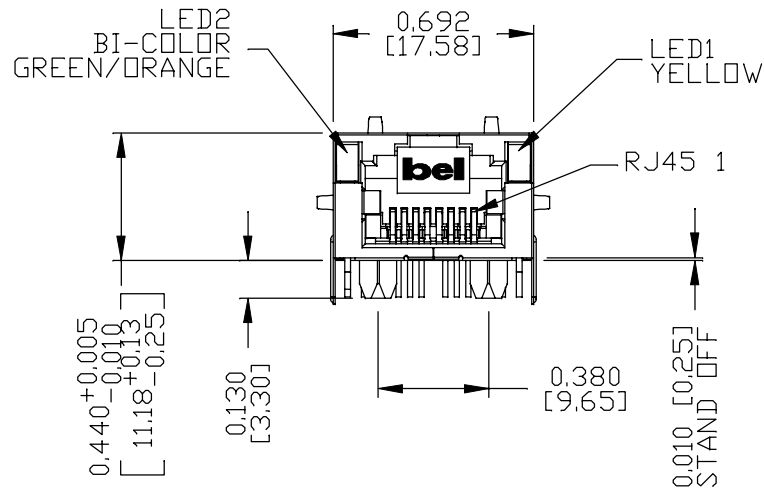
UNIT : INCH [mm]
SCALE : N/A
SIZE : A4



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MECHANICAL SPECIFICATION

RoHS



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.
2. THE PRODUCT IS RoHS COMPLIANT.

3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS,
PART 68 SUBPART F.
4. THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE
U.S. PAT. 7,123,117 AND U.S. PAT. 6,840,817.
5. 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.	
DRAWN BY LIU DONGJUN DATE 2016-09-02		FILE NAME L829-1J1T-JM_A.DWG	.X		UNIT : INCH [mm]	
			.XX		SCALE : N/A	
				.XXX	±0.010	



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**MAGNETIC
SOLUTIONS**



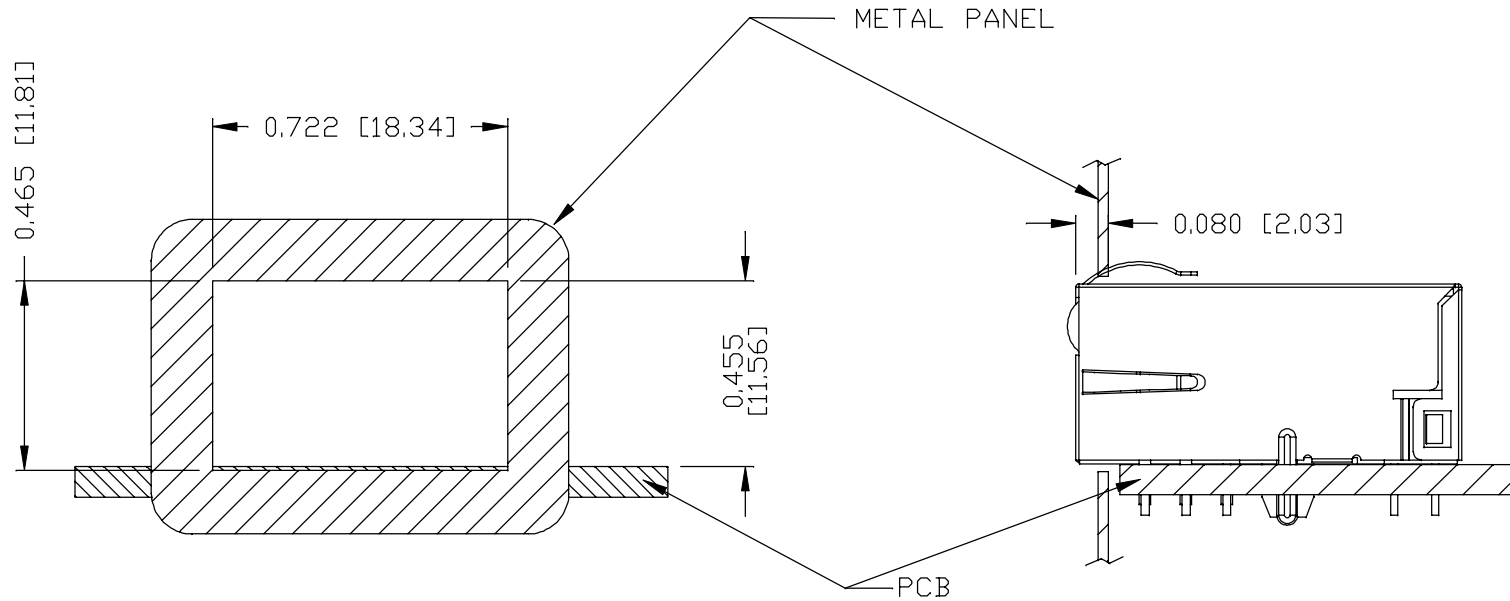
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SUGGESTED PANEL OPENING



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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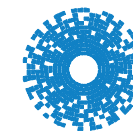
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L829-1J1T-JM_A.DWG

STANDARD DIM.
TOL. IN INCH

.X	
.XX	
.XXX	±0.004

[] METRIC DIM.
AS REF.

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



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