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LED1 POLARITY			LED2 POLARITY		
PIN 17	PIN 18	COLOR	PIN 19	PIN 20	COLOR
-	+	YELLOW	-	+	GREEN
			+	-	ORANGE

RoHS



# ELECTRICAL CHARACTERISTICS @ 25°C

## URNS RATIO

TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%

OCL @ 100kHz, 20mVRMS AND 24mA DC BIAS FROM 0°C TO 70°C = 350uH MIN:  
PAIRS (1-2) AND (3-6).

## INS. LOSS

0.1MHz TO 1MHz	-0.8 dB MAX
1MHz TO 65MHz	-0.6 dB MAX
65MHz TO 100MHz	-0.8 dB MAX
100MHz TO 125MHz	-1.7 dB MAX

## RET. LOSS (MIN)

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

## CROSS TALK

100kHz - 1MHz	-60 dB MIN.
1MHz - 100MHz	-30 dB MIN.

## CM TO CM REJ

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

100kHz - 100MHz	-25 dB MIN
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DCR PINS CABLE SIDE (1-2) AND (3-6): 1.0 OHMS MAX.

HIPOT (Isolation Voltage): 2250 VDC

100% OF PRODUCTION TESTED TO COMPLY WITH  
IEEE 802.3 ISOLATION REQUIREMENTS.

BALANCED DC LINE CURRENT 700 mA MAX. @ 57 VDC CONTINUOUS

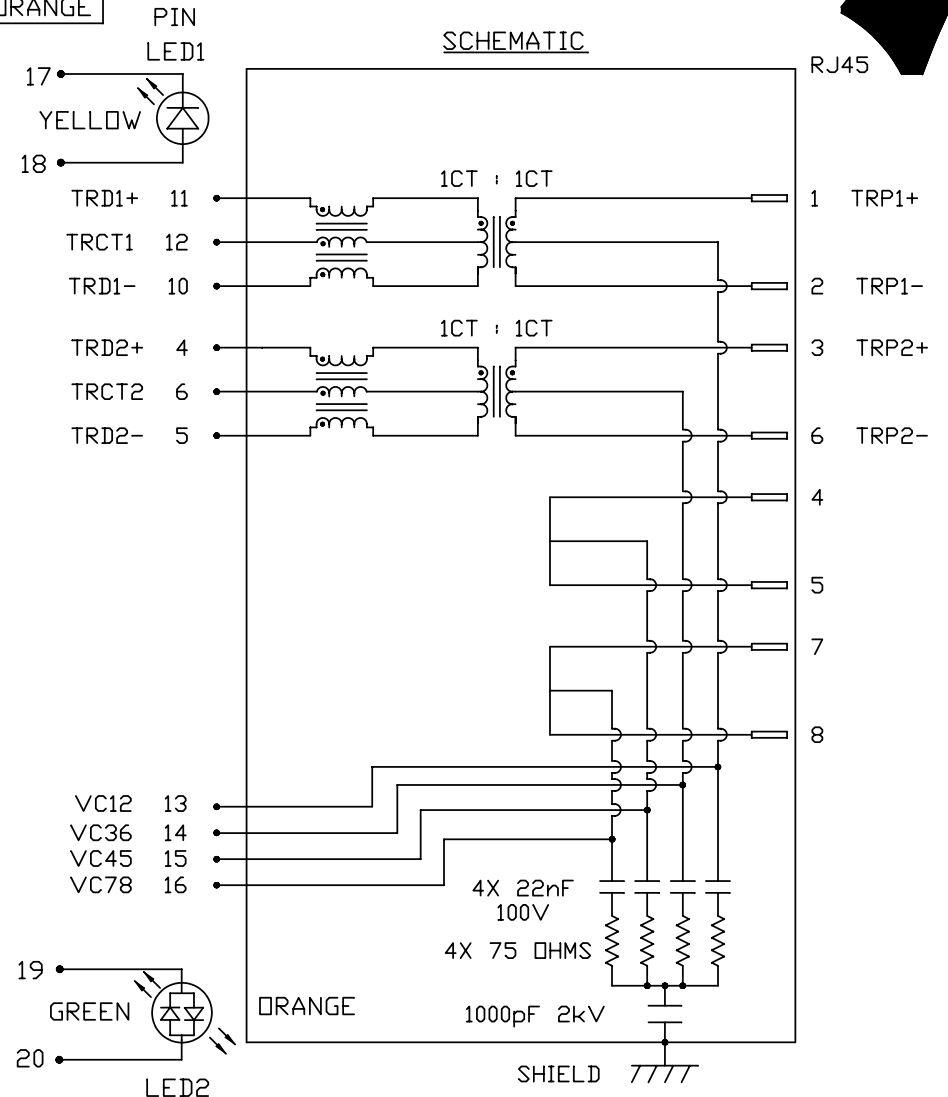
1.2A MAX. @ 57 VDC FOR 200 MILLISECONDS

## 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	565nm TYP.
		ORANGE	610nm TYP.



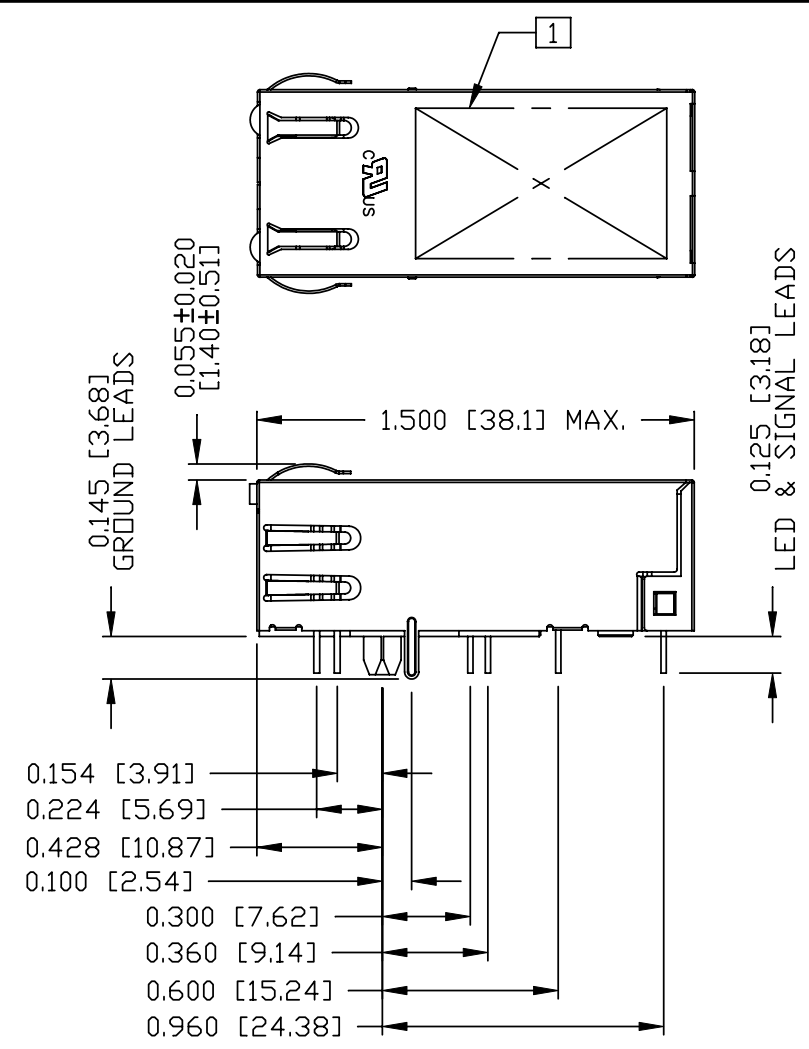
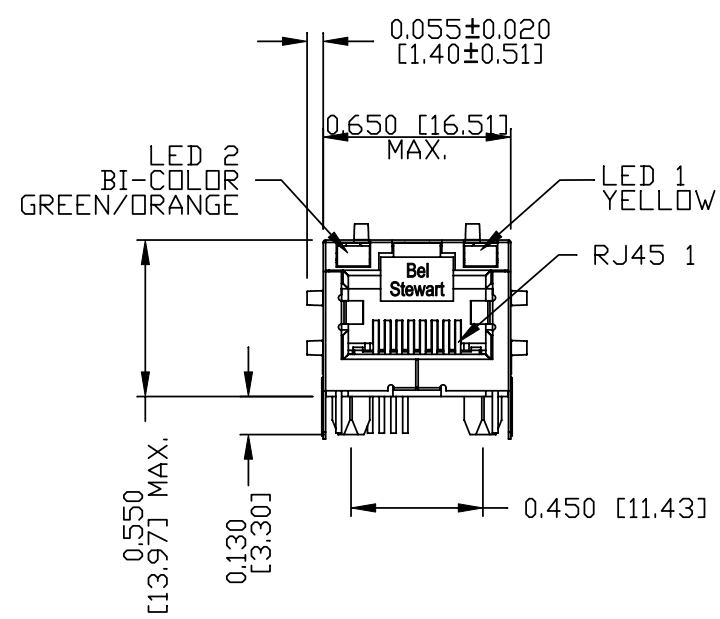
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[ ] METRIC DIM. AS REFERENCE
CHOW WANCHUNG	2012-08-14	10/100 MagJack®	0838-1X1T-W6	TOL. IN INCH	UNIT : INCH [mm]
DRAWN BY	DATE	with PoEp	FILE NAME	.X	REV. : B
TAN QIGUANG	2012-08-14	PATENTED	0838-1X1T-W6_B.DWG	.XX	SCALE : N/A
				.XXX	SIZE : A4
					PAGE : 2



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MECHANICAL SPECIFICATION




NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PBT.  
FLAMMABILITY RATING UL 94V-0.
- CONTACTS: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.
- OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
- 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 ARE U.S. PAT. 5,736,910 AND U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.

ORIGINATED BY		DATE	TITLE	PART NO. / DRAWING NO.		STANDARD DIM.		[ ] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET		
ANTON LIAO		2012-08-14		0838-1X1T-W6		TOL. IN INCH		UNIT : INCH [mm]			REV. : B	
DRAWN BY		DATE		FILE NAME				SCALE : N/A			SIZE : A4	
HE ZHEN		2012-08-14	10/100 MagJack® with PoEp PATENTED		0838-1X1T-W6_B.DWG		.X .XX .XXX		/		PAGE : 3	

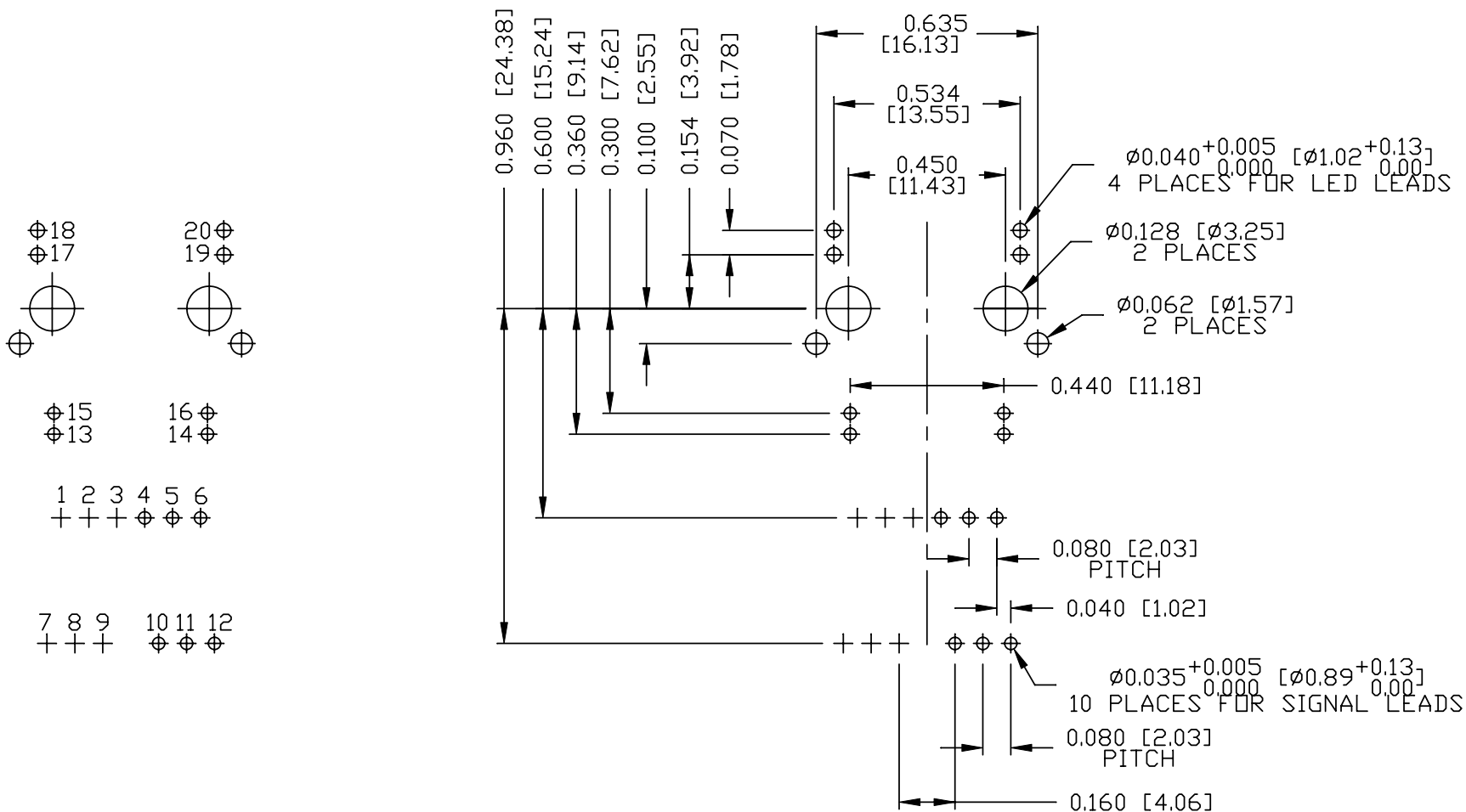






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## RECOMMENDED PCB FOOTPRINT

### COMPONENT SIDE VIEW

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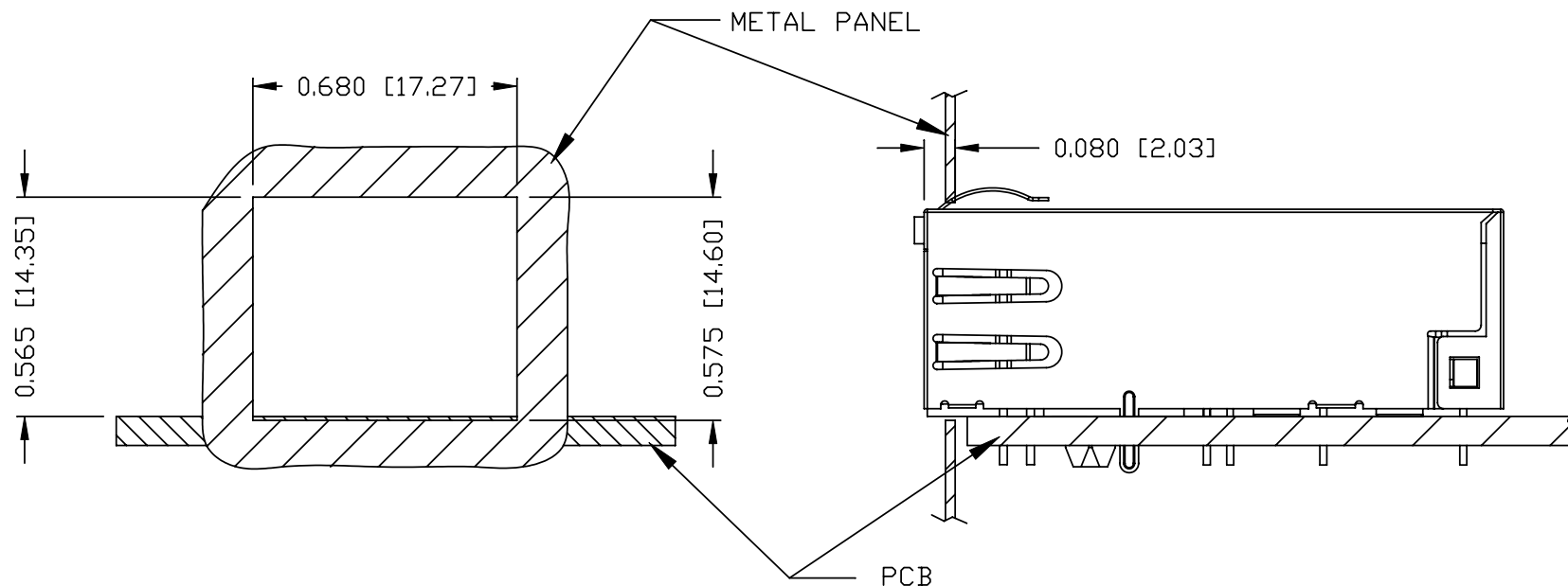
ORIGINATED BY	DATE	TITLE	10/100 MagJack®  with PoEp PATENTED	PART NO. / DRAWING NO.	STANDARD DIM.		[ ] METRIC DIM. AS REFERENCE		  COMPONENTS FOR A CONNECTED PLANET 
ANTON LIAO	2012-08-14			0838-1X1T-W6	TOL. IN INCH		UNIT : INCH [mm]	REV. : B	
DRAWN BY	DATE			FILE NAME	.X		SCALE : N/A	SIZE : A4	
HE ZHEN	2012-08-14			0838-1X1T-W6_B.DWG	.XX		±0.004		
			.XXX						

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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-R3 (TOP)

0200-9999-R4 (BOTTOM)

PACKING QUANTITY : 42 PCS FINISHED GOODS PER TRAY

10 TRAYS (420 PCS FINISHED GOODS) PER CARTON BOX

NOTE : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX  
(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

ORIGINATED BY	DATE	TITLE	10/100 MagJack®  with PoEp PATENTED	PART NO. / DRAWING NO.	STANDARD DIM.		[ ] METRIC DIM. AS REFERENCE		<div> COMPONENTS ON A CONNECTED PLANET</div>
ANTON LIAO	2012-08-14			0838-1X1T-W6	TOL. IN INCH		UNIT : INCH [mm]	REV. : B	
DRAWN BY	DATE			FILE NAME	.X		SCALE : N/A	SIZE : A4	
HE ZHEN	2012-08-14			0838-1X1T-W6_B.DWG	.XX			PAGE : 5	
					.XXX	±0.004			

