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

RoHS
2002/95/EC

RJ45

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

OCL @ 100kHz, 20mVRMS AND 24mA DC BIAS FROM 0°C TO 70°C = 350uH MIN;
PAIRS (1-2), (3-6), (4-5) AND (7-8).

INS. LOSS

0.1MHz TO 1MHz	-0.8 dB MAX
1MHz TO 65MHz	-0.6 dB MAX
65MHz TO 100MHz	-1.2 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	-60dB MIN
1MHz - 100MHz	-30dB MIN

CM TO CM REJ

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

100kHz - 100MHz	-25dB MIN.
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HIPOT (Isolation Voltage):

2250 VDC

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.

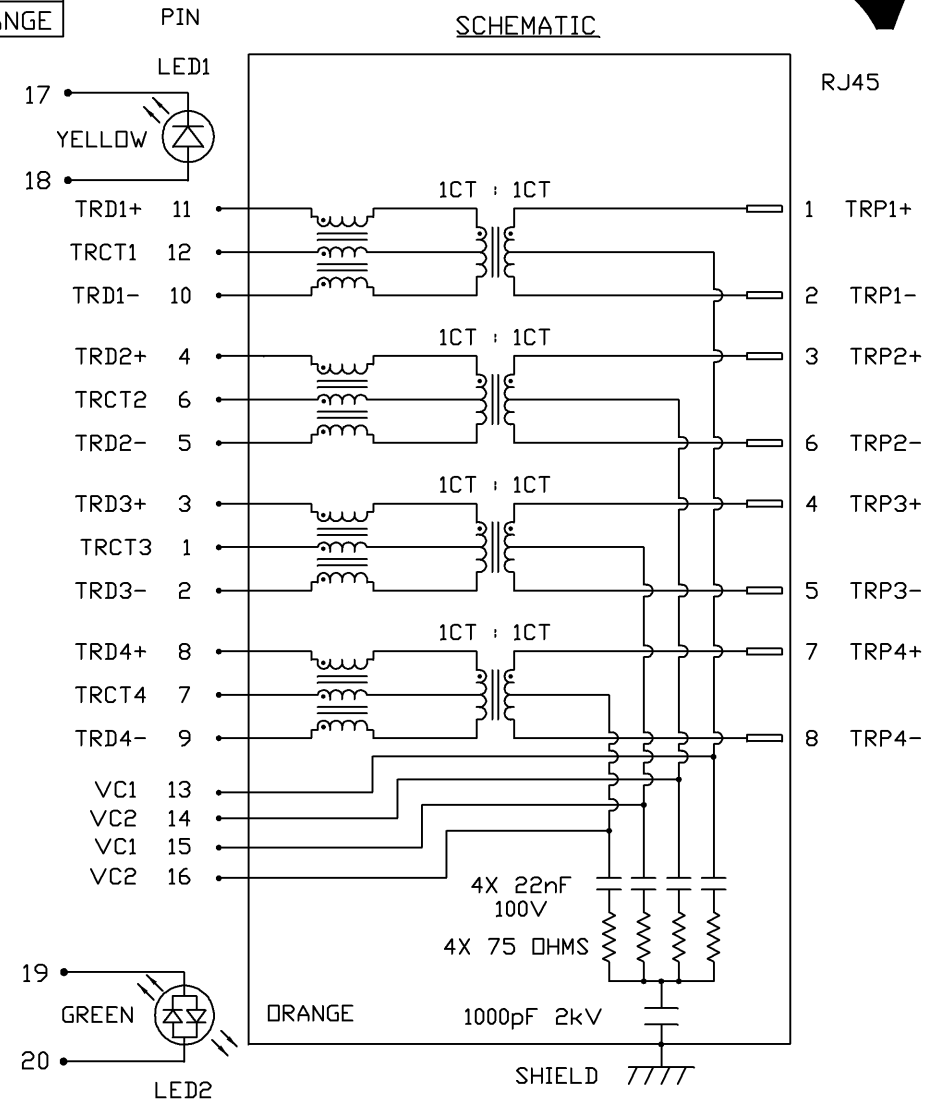
LED 2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
ORANGE 2.0V TYP.
λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.
ORANGE 610nm TYP.

DCR PINS CABLE SIDE (1-2), (3-6), (4-5) AND (7-8):

1.0 OHMS MAX.

BALANCED DC LINE CURRENT 700 mA MAX. @ 57 VDC CONTINUOUS
1.2A MAX. @ 57 VDC FOR 200 MILLISECONDS



ORIGINATED BY	DATE	TITLE
CHOW WANCHUNG	01-08-09	
DRAWN BY	DATE	gigabit MagJack® with PoEp
LI YONGFENG	01-08-09	

PART NO. / DRAWING NO.	0838-1X1T-W7
FILE NAME	0838-1X1T-W7_B.DWG

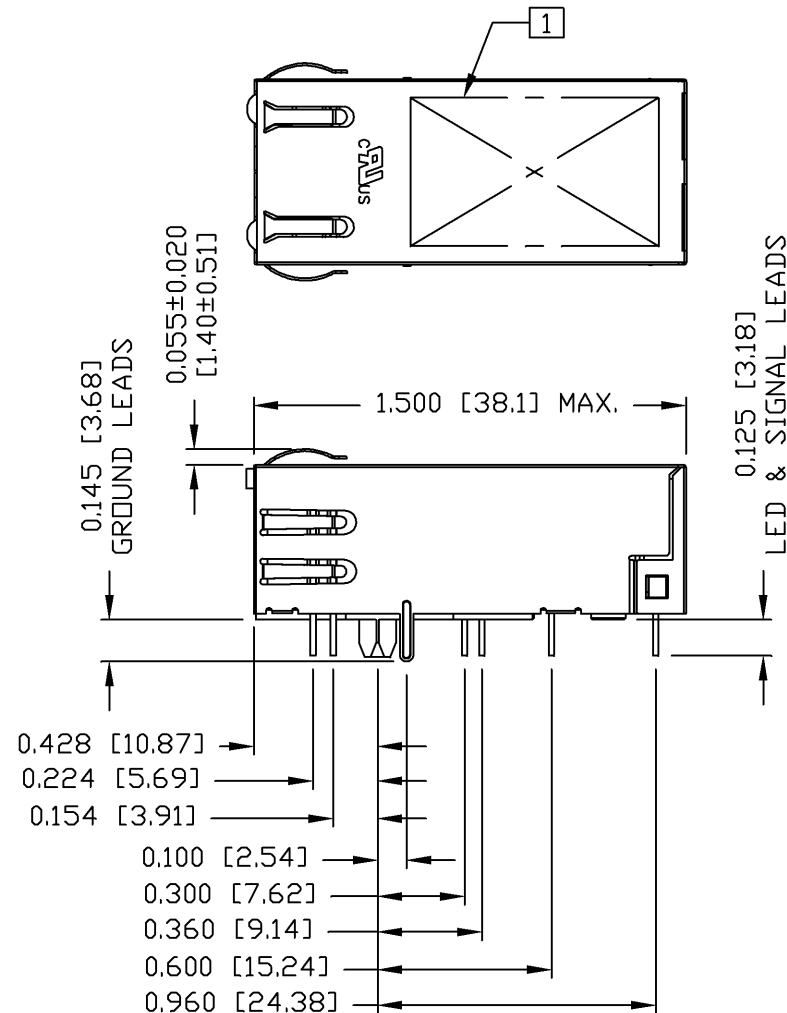
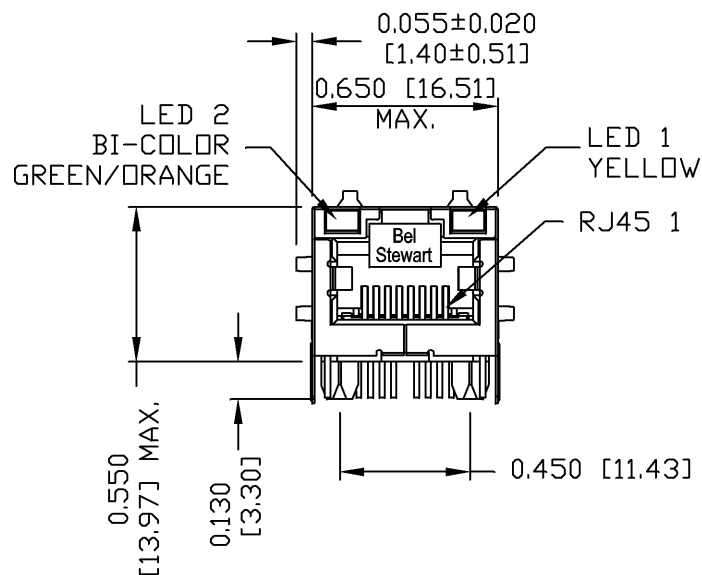
STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
.X	UNIT : INCH [mm]
.XX	REV. : B
.XXX	SCALE : N/A
	SIZE : A4
	PAGE : 2



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MECHANICAL SPECIFICATION

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NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PBT.
FLAMMABILITY RATING UL 94V-0.
- CONTACTS: 50 MICRO-INCH HARD GOLD PLATING.
- 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, AND DATE CODE.

UL RECOGNIZED - FILE #E196366 AND E169987.
RoHS COMPLIANT, PER EU DIRECTIVE 2002/95/EC
JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

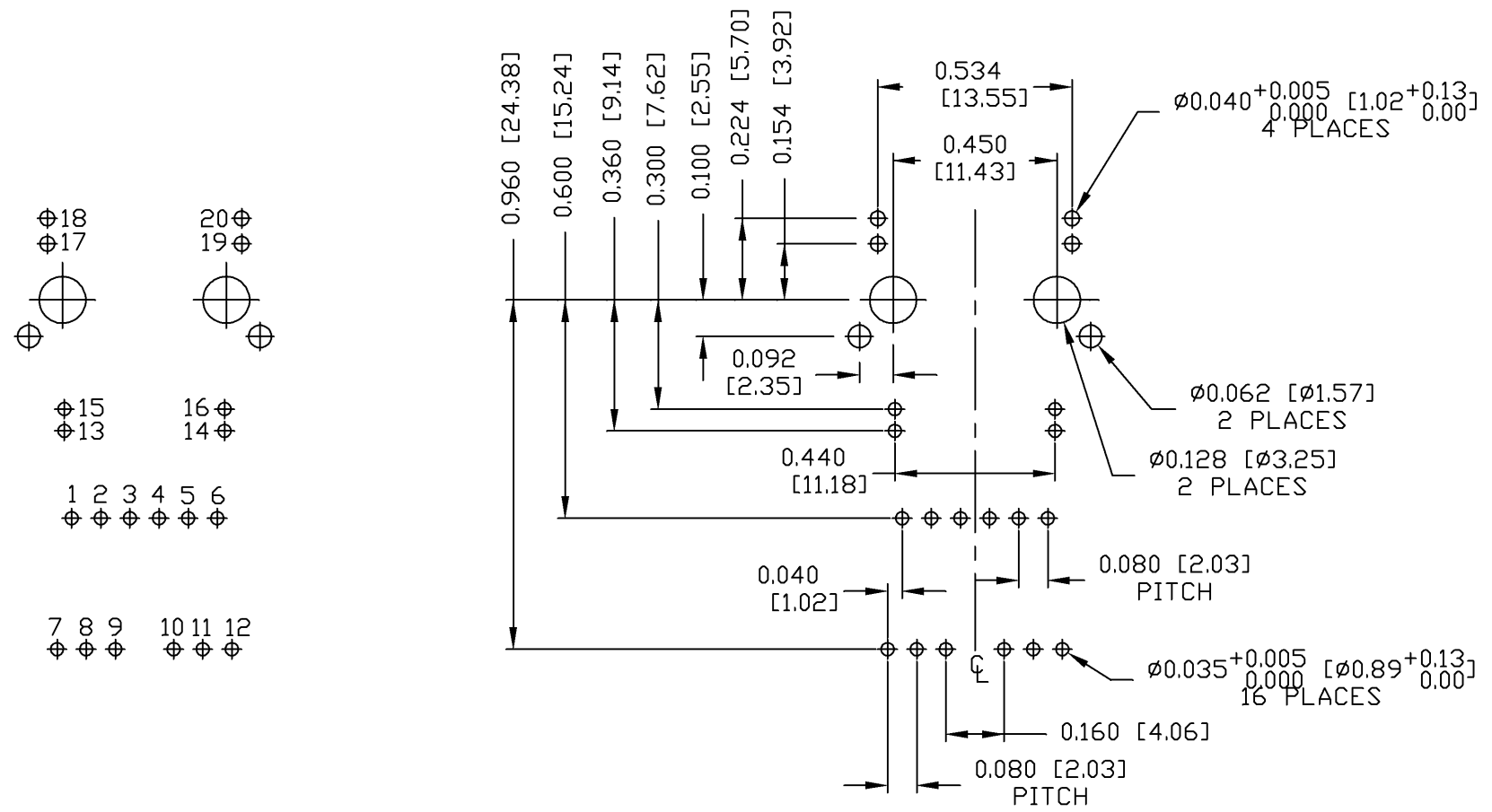
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	 COMPONENTS FOR A CONNECTED PLANET	
LIU QIN	01-08-09	gigabit MagJack® with PoEp	0838-1X1T-W7	.X	UNIT : INCH [mm]		REV. : B
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A		SIZE : A4
XIAN JIAXIN	01-08-09		0838-1X1T-W7_B.DWG	.XXX	±0.010		PAGE : 3

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RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW



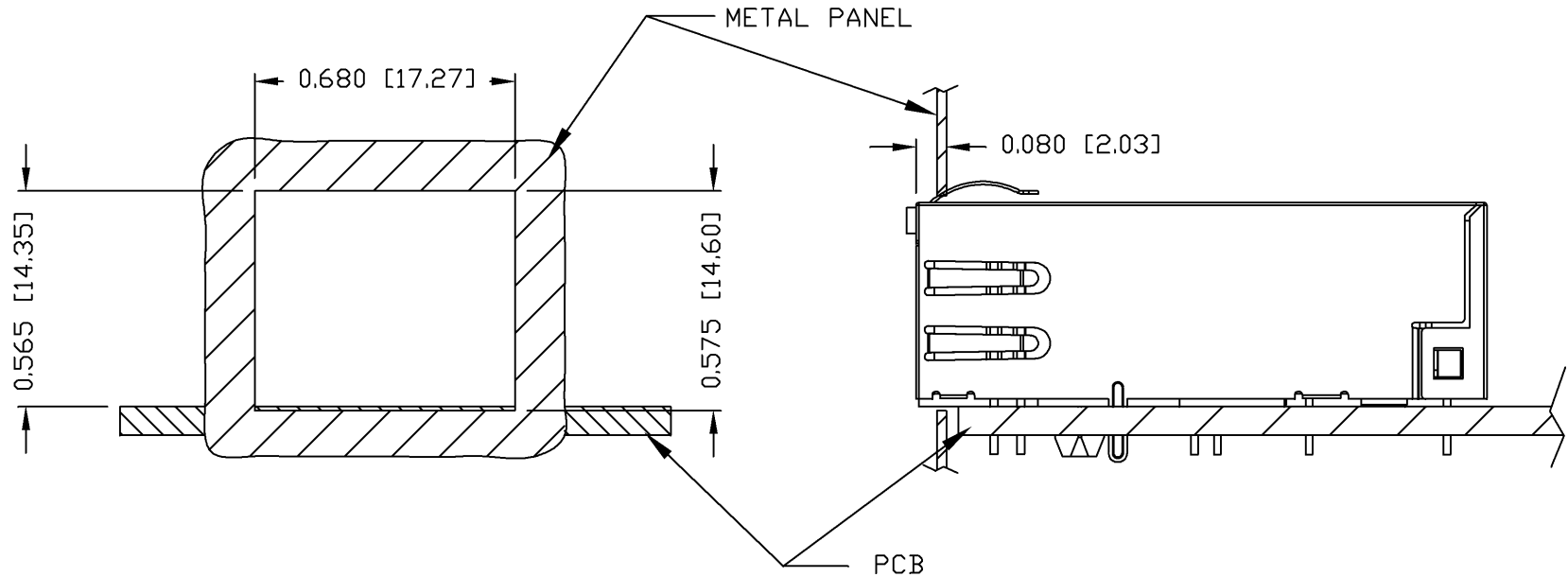
ORIGINATED BY LIU QIN	DATE 01-08-09	TITLE gigabit MagJack® with PoEp	PART NO. / DRAWING NO. 0838-1X1T-W7	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
DRAWN BY XIAN JIAXIN	DATE 01-08-09		FILE NAME 0838-1X1T-W7_B.DWG	.X .XX .XXX ±0.004	UNIT : INCH [mm] SCALE : N/A	

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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 LIU QIN	DATE 01-08-09	TITLE gigabit MagJack® with PoEp	PART NO. / DRAWING NO. 0838-1X1T-W7	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE		bel
	DRAWN BY XIAN JIAXIN		DATE 01-08-09	FILE NAME 0838-1X1T-W7_B.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A ±0.004	