

LED 1 POLARITY			LED 2 POLARITY		
PIN 15	PIN 16	COLOR	PIN 17	PIN 18	COLOR
+	-	GREEN	+	-	GREEN

PRELIMINARY



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX 1CT : 2
RX 1CT : 1

CL @ 100kHz/100mVRMS

Tx 18 μ H MIN.
Rx 98 μ H MIN.

INS. LOSS

1MHz TO 10MHz -1.0 dB MAX

RET. LOSS (MIN)

1MHz-10MHz -18 dB

CROSS TALK (TX - RX)

100kHz-100MHz -35 dB MIN

CM TO CM REJ

100kHz-100MHz -30 dB MIN

CM TO DM REJ

100kHz-100MHz -35 dB MIN

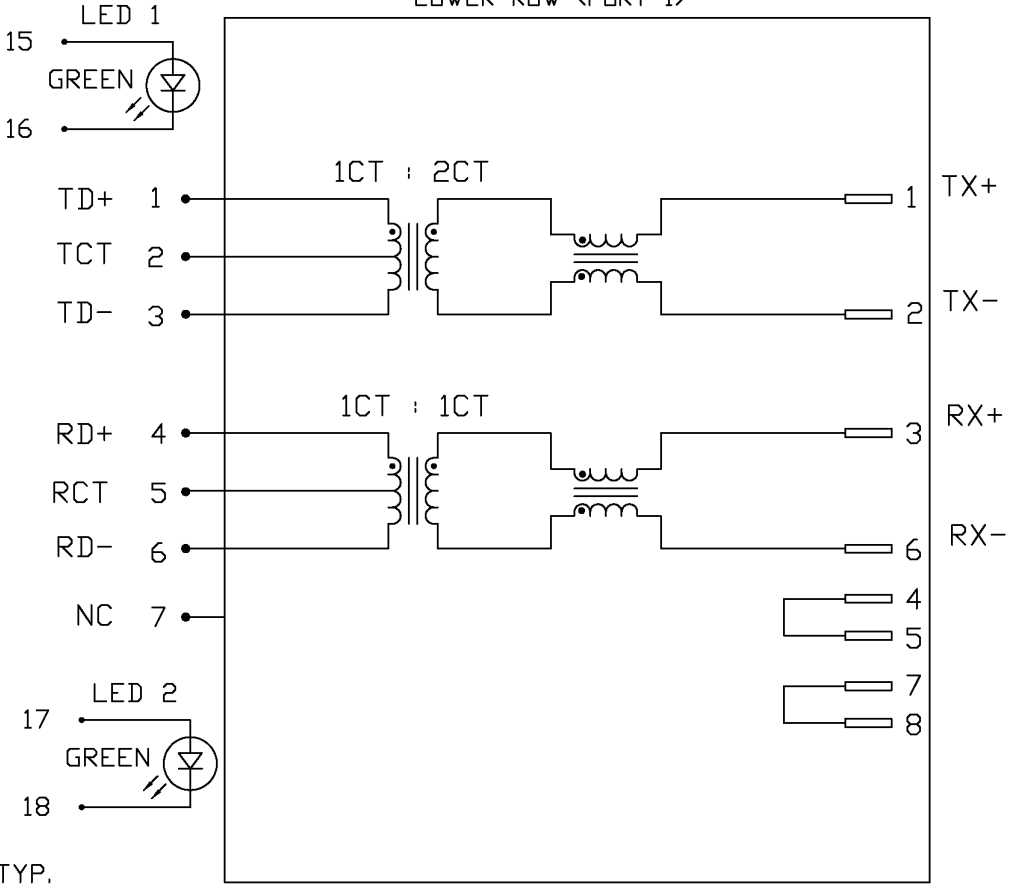
HIPOT (Isolation Voltage)

1500 Vrms

LED1 and LED2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
 λ D (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.

SCHEMATIC
LOWER ROW (PORT 1)



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : PC
CHUNG	12-27-05	2X1 MagJack® (with LED)	0845-2G1T-H6	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 2
DE	12-27-05		08452G1TH6PC.DWG	.XXX			



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LED 3 POLARITY			LED 4 POLARITY		
PIN 19	PIN 20	COLOR	PIN 21	PIN 22	COLOR
+	-	GREEN	+	-	GREEN

PRELIMINARY



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX	1CT : 1
RX	1CT : 1
QCL @ 100kHz,100mVRMS	350µH MIN
8mA DC BIAS	

INS. LOSS	-1.1 dB MAX
100KHz TO 100MHZ	

RET. LOSS	-18 dB MIN
1MHZ-30MHZ	-12 dB MIN
60MHZ-80MHZ	

CROSS TALK (TX - RX)	-35 dB MIN
100kHz-100MHZ	

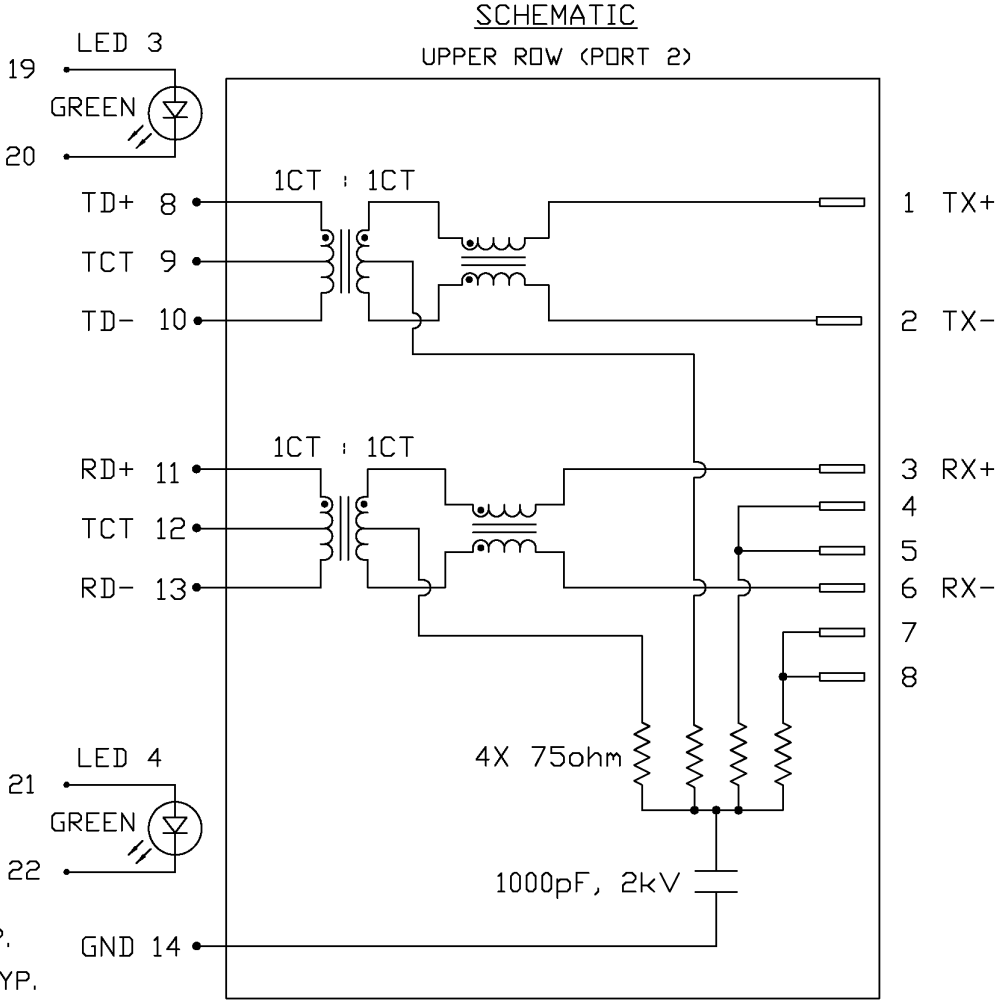
CM TO CM REJ	-30 dB MIN
100kHz-100MHZ	

CM TO DM REJ	-35 dB MIN
100kHz-100MHZ	

HIPOT (Isolation Voltage)	1500 Vrms
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LED3 and LED4 (Super bright)

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

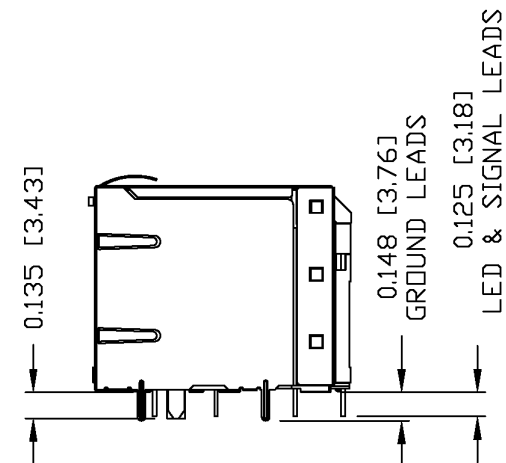
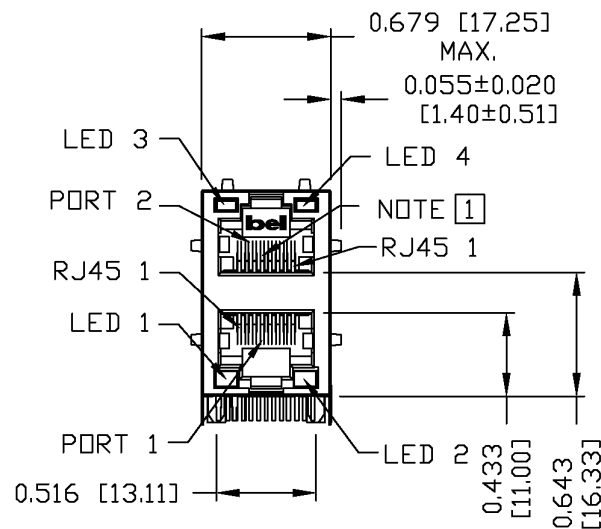
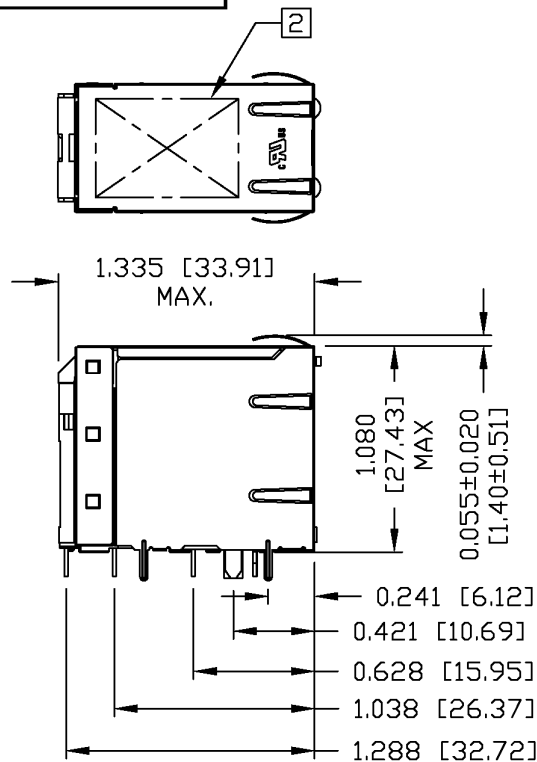


ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : PC
CHUNG	12-27-05	2X1 MagJack® (with LED)	0845-2G1T-H6	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 3
DE	12-27-05		08452G1TH6PC.DWG	.XXX			



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PRELIMINARY



NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT
FLAMMABILITY RATING UL 94V-0
CONTACT PLATING: 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. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.

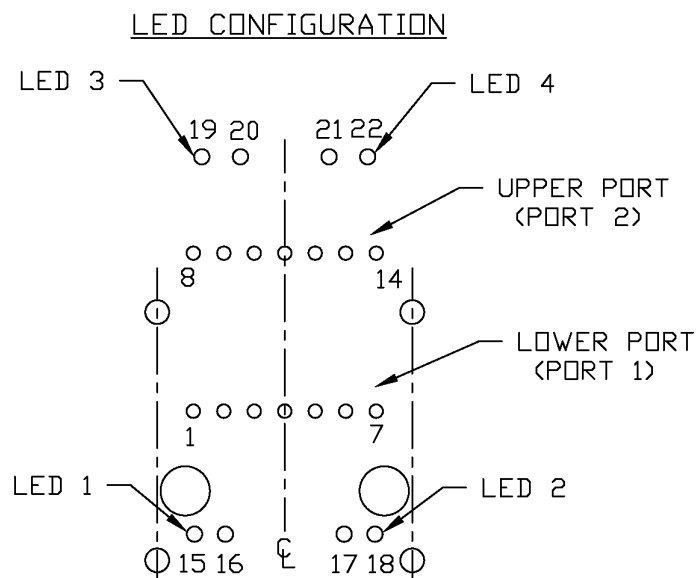
2. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

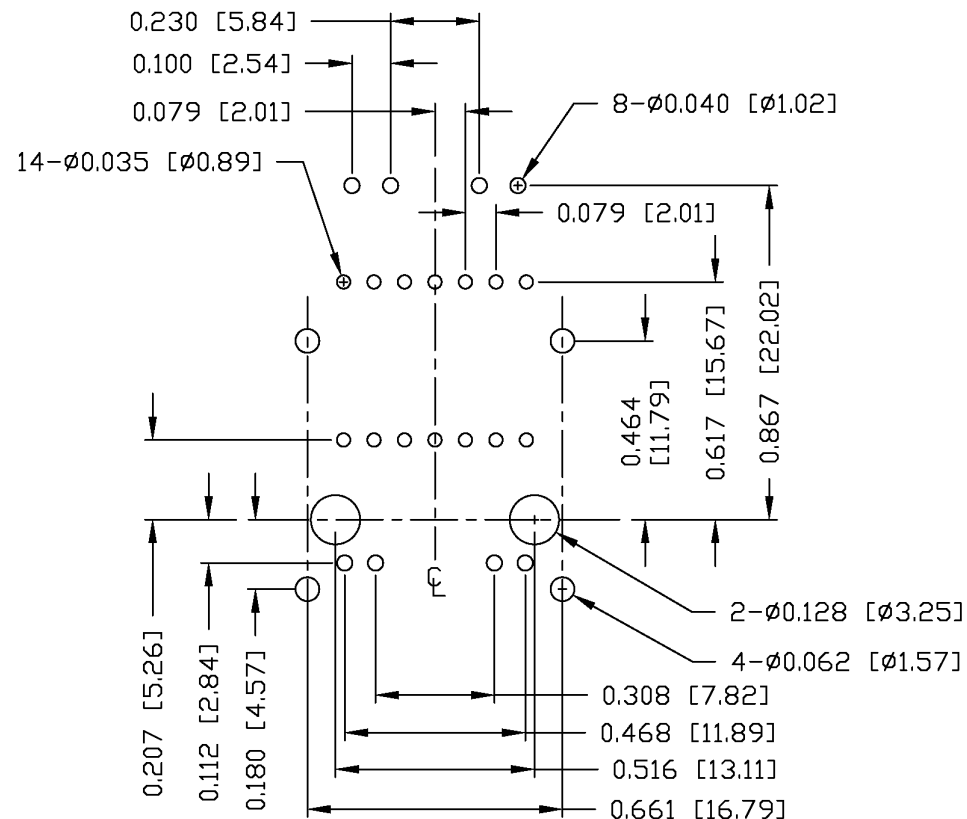
c us UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY	DATE	TITLE 2X1 MagJack® (with LED)	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
BILL/KEUNG	12-27-05		0845-2G1T-H6	TOL. IN INCH		UNIT : INCH [mm] REV. : PC		
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
QIN	12-27-05		08452G1TH6PC.DWG	.XX			PAGE : 4	
				.XXX	±0.010			





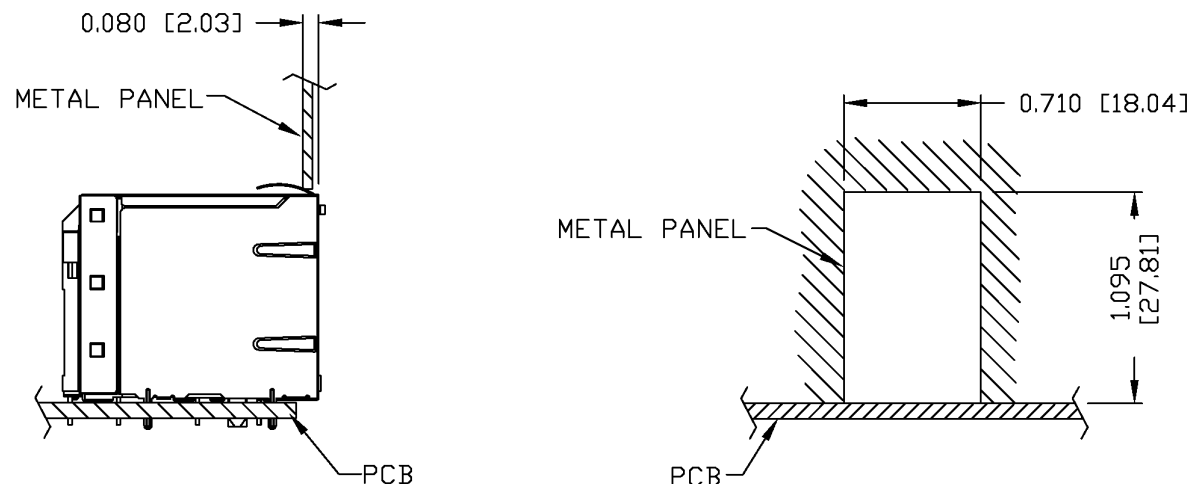
PIN-OUT INFORMATION
 (COMPONENT SIDE VIEW)
 (SCALE 2:1)



SUGGESTED FOOTPRINT
 (COMPONENT SIDE VIEW)
 (SCALE 2:1)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
BILL/KEUNG	12-27-05	2X1 MagJack® (with LED)	0845-2G1T-H6	.X	UNIT : INCH [mm] REV. : PC
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
QIN	12-27-05		08452G1TH6PC.DWG	.XXX ±0.004	PAGE : 5

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-H5 (TOP)
0200-9999-H6 (BOTTOM)

PACKING QUANTITY: 40 PCS FINISHED GOODS PER TRAY
6 TRAYS (240 PCS FINISHED GOODS) PER CARTON BOX.

NOTE: CARDBOARD ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX.
(INCLUDE THE UPPERMOST AND LOWEREST TRAY)

ORIGINATED BY BILL/KEUNG	DATE 12-27-05	TITLE 2X1 MagJack® (with LED)	PART NO. / DRAWING NO. 0845-2G1T-H6	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY QIN	DATE 12-27-05		FILE NAME 08452G1TH6PC.DWG	.X		UNIT : INCH [mm]	REV. : PC	
				.XX		SCALE : N/A	SIZE : A4	
				.XXX	±0.004		PAGE : 6	