

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

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX	1CT : 1CT ±3%
RX	1CT : 1CT ±3%

QCL @ 100kHz/100mVRMS	350µH MIN.
8mA DC BIAS	

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

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

CM TO CM REJ	
1MHZ-100MHZ	-35 dB TYP

CROSS TALK (TX - RX)	
1MHZ-100MHZ	-35 dB TYP

LEAKAGE INDUCTANCE	
PRIMARY W/ SECONDARY SHORTED	0.4uH Max. @ 1MHz
INTERWINDING CAPACITANCE	
PER CHANNEL (PRI. TO SEC.)	30pF TYP @ 1MHz

DC RESISTANCE	
(RJ1-RJ2)=(RJ3-RJ6)	1.8 ohms Max
PIN4-PIN6	1.1 ohms Max
PIN1-PIN3	1.1 ohms Max

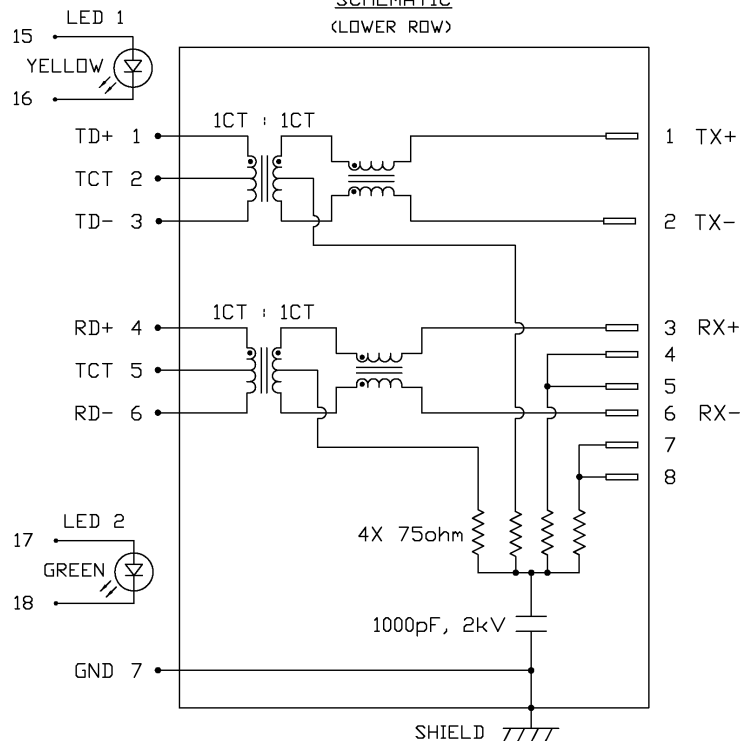
OPERATING TEMPERATURE:	-40 TO +85 C°
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HIPOT (Isolation Voltage):	1500 Vrms
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LED 1			
VF (FORWARD VOLTAGE)	IF=20mA	YELLOW	2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	590nm TYP.
LED 2			
VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN	565nm TYP.

SCHEMATIC

(LOWER ROW)



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : A
CHUNG	02-14-06	2X1 MagJack® (with LED)	0845-2D1T-S4	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX		⊕	PAGE : 2
DE	02-14-06		08452D1TS4A.DWG	.XXX			

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



ELECTRICAL CHARACTERISTICS @ 25°C

TRANSFORMER

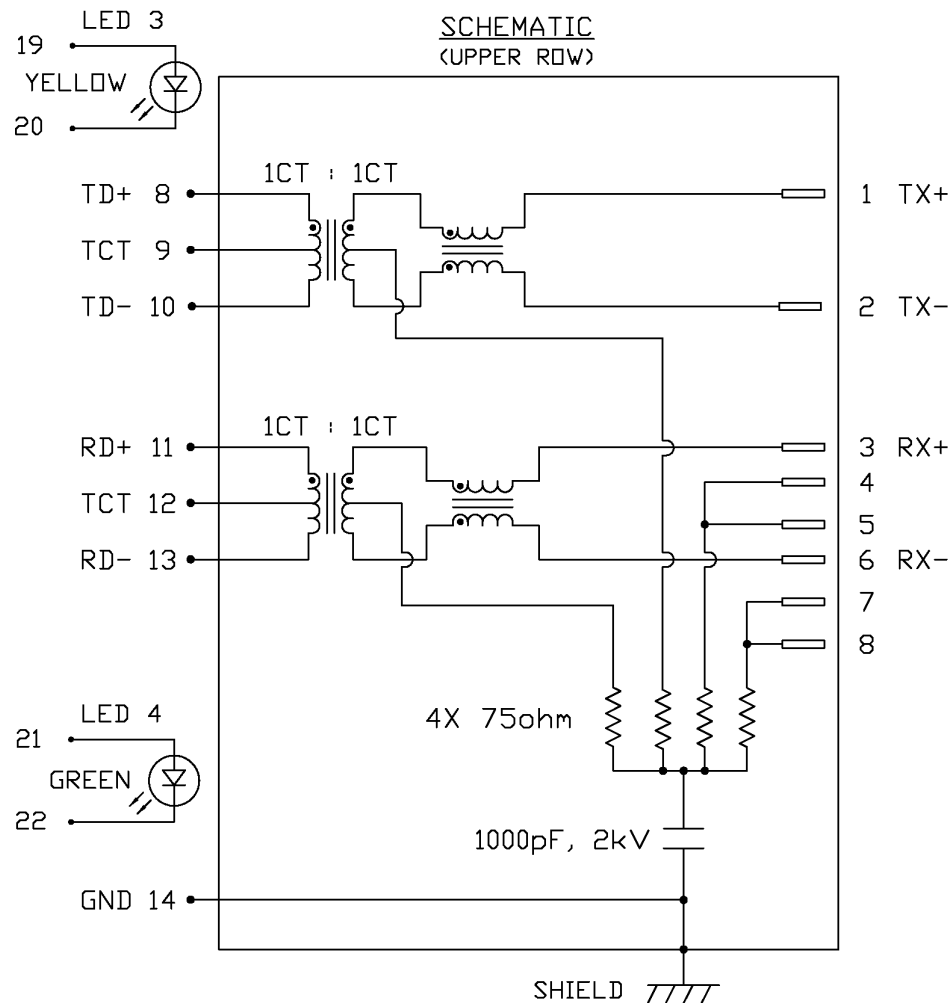
TX	1CT : 1CT ±3%
RX	1CT : 1CT ±3%
DC L @ 100kHz/100mVRMS	
8mA DC BIAS	350µH MIN.
INS. LOSS	
100kHz TO 100MHz	-1.1 dB MAX
RET. LOSS (MIN)	
1MHz-30MHz	-18 dB
60MHz-80MHz	-12 dB
CM TO CM REJ	
1MHz-100MHz	-35 dB TYP
CROSS TALK (TX - RX)	
1MHz-100MHz	-35 dB TYP
LEAKAGE INDUCTANCE	
PRIMARY W/ SECONDARY SHORTED	0.4µH Max. @ 1MHz
INTERWINDING CAPACITANCE	
PER CHANNEL (PRI. TO SEC.)	30pF TYP @ 1MHz
DC RESISTANCE	
(RJ1-RJ2)=(RJ3-RJ6)	1.8 ohms Max
PIN11-PIN13	1.1 ohms Max
PIN8-PIN10	1.1 ohms Max
OPERATING TEMPERATURE:	-40 TO +85 °C
HIPOT (Isolation Voltage):	1500 Vrms

LED 3 (Super bright)

VF (FORWARD VOLTAGE)	IF=20mA	YELLOW	2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	590nm TYP.

LED 4 (Super bright)

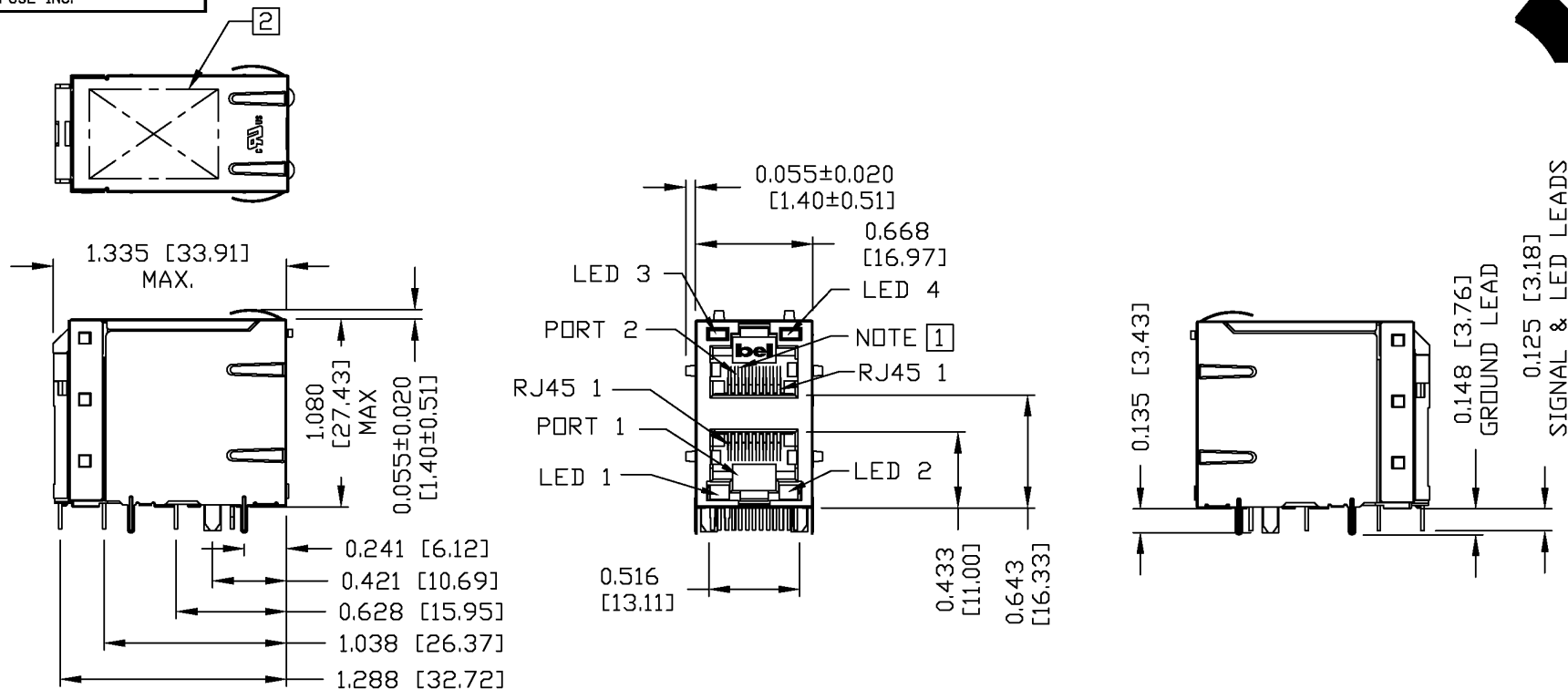
VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN	565nm TYP.



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE		
CHUNG	02-14-06	2X1 MagJack® (with LED)	0845-2D1T-S4	TOL. IN INCH	UNIT : INCH [mm]	REV. : A	 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4	
DE	02-14-06		08452D1TS4A.DWG	.XX .XXX		PAGE : 3	

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RoHS
2002/95/EC



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.

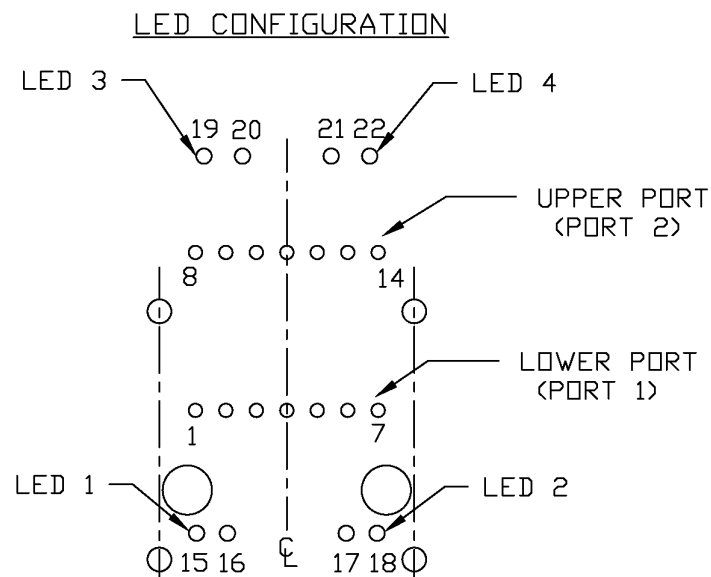
[2] MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

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

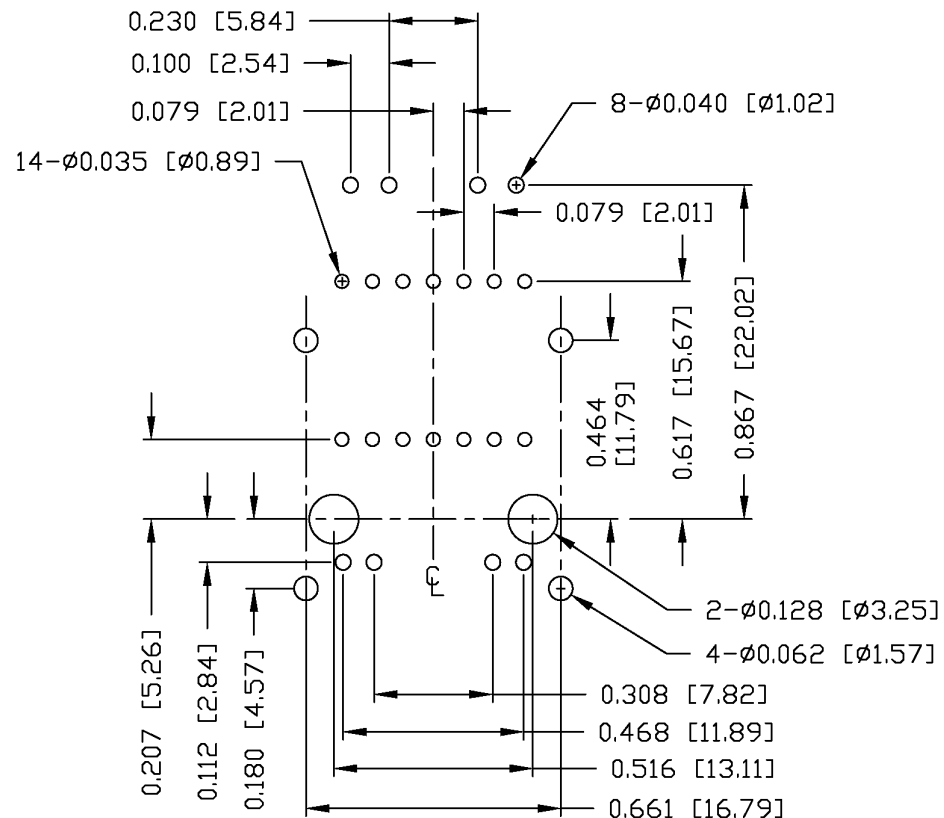
c **UL** US UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
BILL/KEUNG	02-14-06	2X1 MagJack® (with LED)	0845-2D1T-S4	.X	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE			.XX	SCALE : N/A SIZE : A4
QIN	02-14-06			.XXX ±0.010	PAGE : 4





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

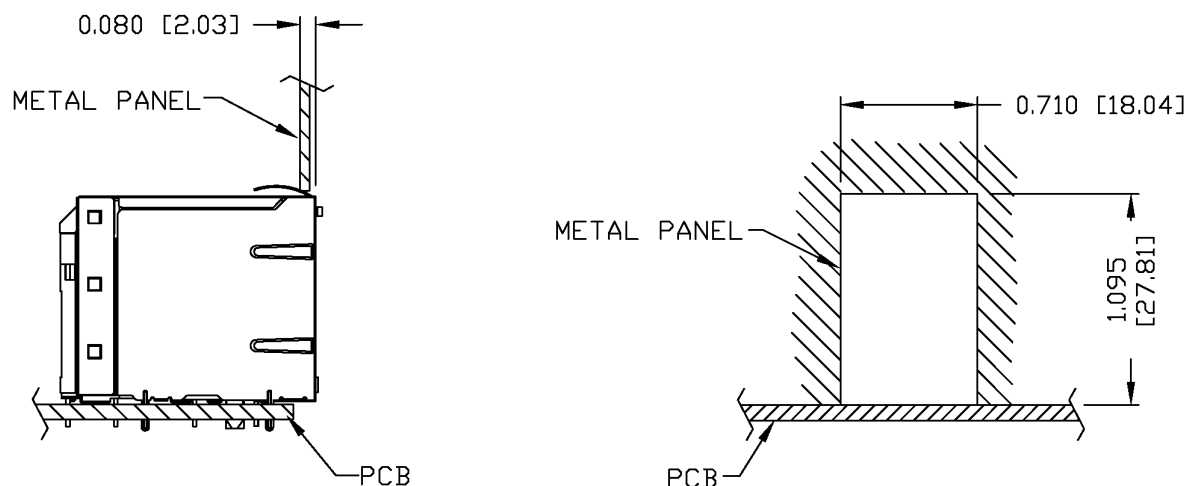


SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)
(SCALE 2:1)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
BILL/KEUNG	02-14-06	2X1 MagJack® (with LED)	0845-2D1T-S4	.X	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
QIN	02-14-06		08452D1TS4A.DWG	.XXX ±0.004	PAGE : 5



SUGGESTED PANEL OPENING



NOTE:

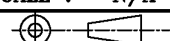
THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION.
IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

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 02-14-06	TITLE 2X1 MagJack® (with LED)	PART NO. / DRAWING NO. 0845-2D1T-S4	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
				.X		UNIT : INCH [mm]	REV. : A
DRAWN BY QIN	DATE 02-14-06		FILE NAME 08452D1TS4A.DWG	.XX		SCALE : N/A	SIZE : A4
				.XXX	±0.004		PAGE : 6