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

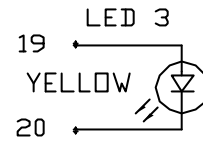
PRELIMINARY



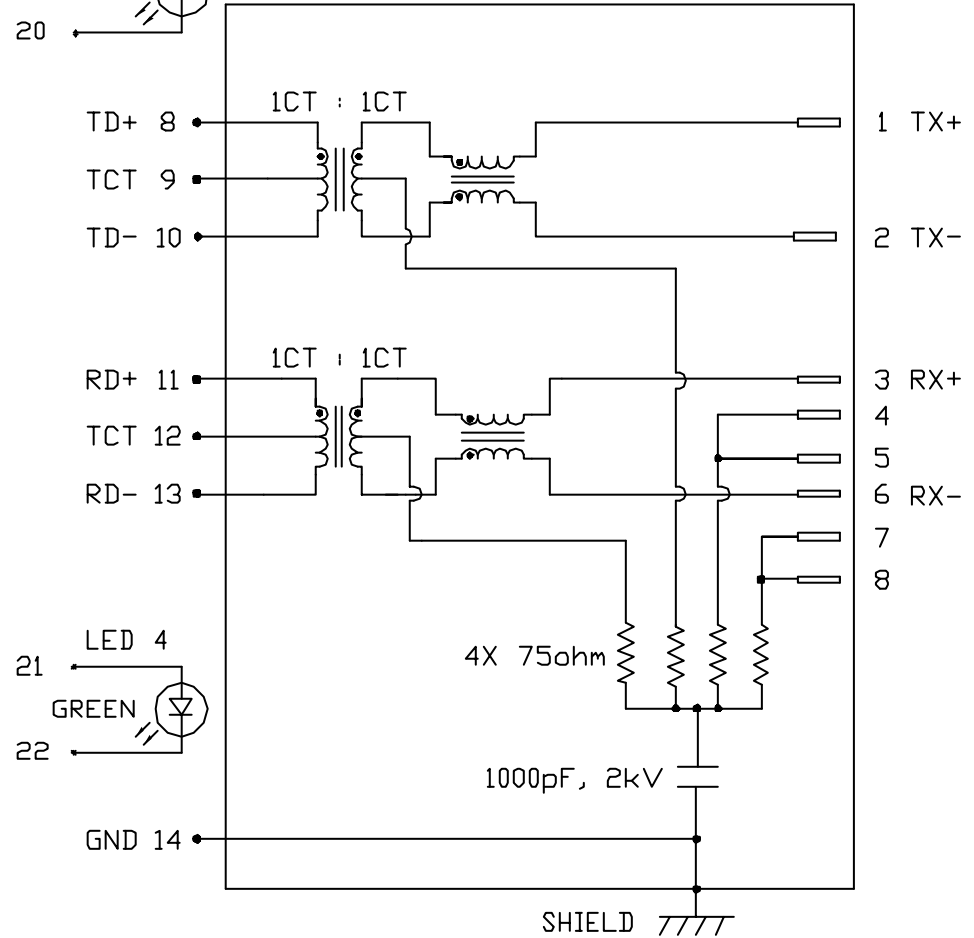
ELECTRICAL CHARACTERISTICS @ 25°C

TRANS RATIO

TX	1CT : 1
RX	1CT : 1
DCL @ 100kHz/100mVRMS	350μH MIN.
8mA DC BIAS	
INS. LOSS	
1MHz TO 100MHz	-1.0 dB MAX
RET. LOSS (MIN)	
1MHz-30MHz	-18 dB
30MHz-60MHz	-18+20LOG(F/30MHz) dB
60MHz-80MHz	-12 dB
CROSS TALK (TX - RX)	
500kHz-1MHz	-70 dB MIN
10 MHz	-50 dB MIN
30 MHz	-45 dB MIN
50 MHz	-40 dB MIN
100 MHz	-35 dB MIN
CM TO CM REJ	
100kHz-1MHz	-70 dB MIN
10 MHz	-47 dB MIN
30 MHz	-42 dB MIN
60 MHz	-37 dB MIN
100 MHz	-30 dB MIN
CM TO DM REJ	
100kHz-1MHz	-70 dB MIN
10 MHz	-60 dB MIN
30 MHz	-50 dB MIN
60 MHz	-45 dB MIN
100 MHz	-40 dB MIN
HIPOT (Isolation Voltage):	1500 Vrms
LED 3	
VF (FORWARD VOLTAGE)	IF=20mA YELLOW 2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA YELLOW 590nm TYP.
LED 4	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.



SCHEMATIC (UPPER PORT) PORT 2



ORIGINATED BY	DATE	TITLE 2X1 MagJack® (with LED)	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 bel COMPONENTS FOR A CONNECTED PLANET
CHUNG	08-11-05		0845-2D1T-H5	TOL. IN INCH		UNIT : INCH [mm]	REV. : PB	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
DE	08-11-05		08452D1TH5PB.DWG	.XX			PAGE : 2	
			.XXX					



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

PRELIMINARY



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX 1CT : 1

RX 1CT : 1

DCL @ 100kHz/100mVRMS

8mA DC BIAS 350μH MIN.

INS. LOSS

1MHz TO 100MHz -1.0 dB MAX

RET. LOSS (MIN)

1MHz-30MHz -18 dB

30MHz-60MHz -18+20LOG(F/30MHz) dB

60MHz-80MHz -12 dB

CROSS TALK (TX - RX)

500kHz-1MHz -70 dB MIN

10 MHz -50 dB MIN

30 MHz -45 dB MIN

50 MHz -40 dB MIN

100 MHz -35 dB MIN

CM TO CM REJ

100kHz-1MHz -70 dB MIN

10 MHz -47 dB MIN

30 MHz -42 dB MIN

60 MHz -37 dB MIN

100 MHz -30 dB MIN

CM TO DM REJ

100kHz-1MHz -70 dB MIN

10 MHz -60 dB MIN

30 MHz -50 dB MIN

60 MHz -45 dB MIN

100 MHz -40 dB MIN

HIPOT (Isolation Voltage)

1500 Vrms

LED 1

VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

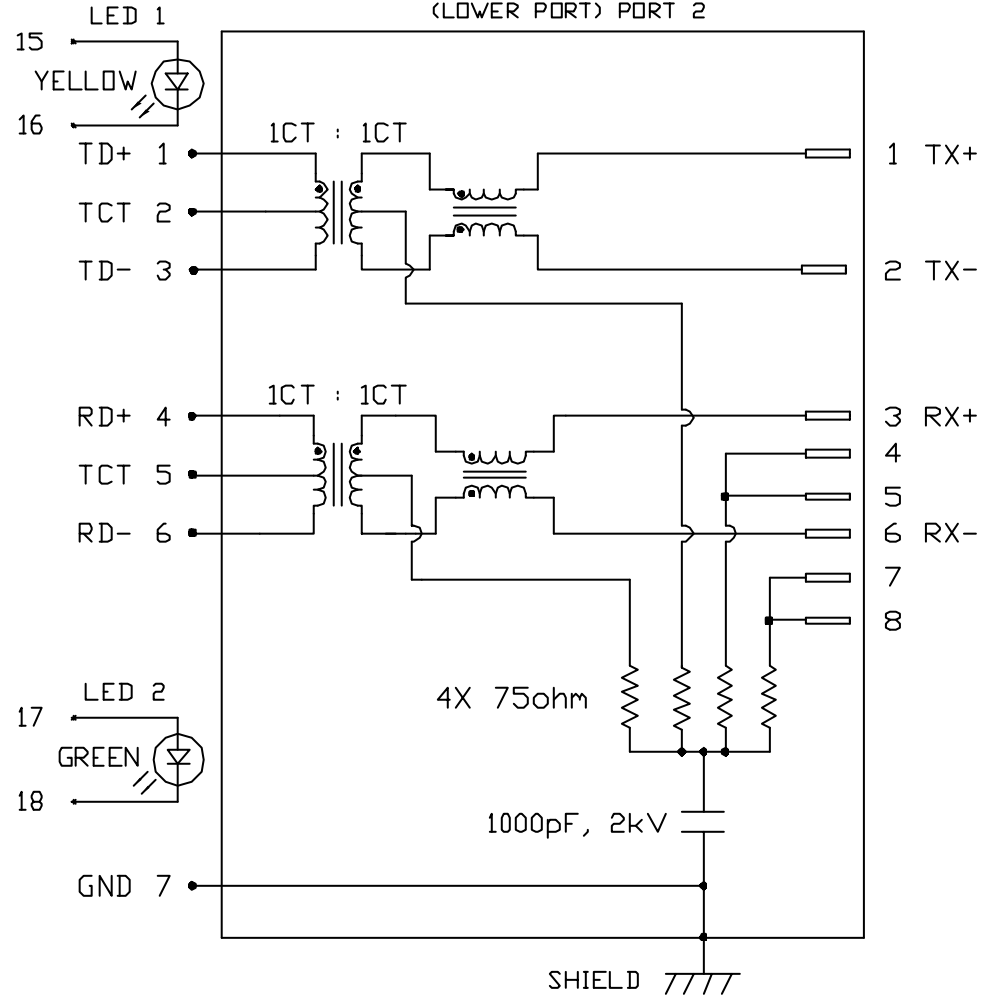
LED 2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.

SCHEMATIC

(LOWER PORT) PORT 2



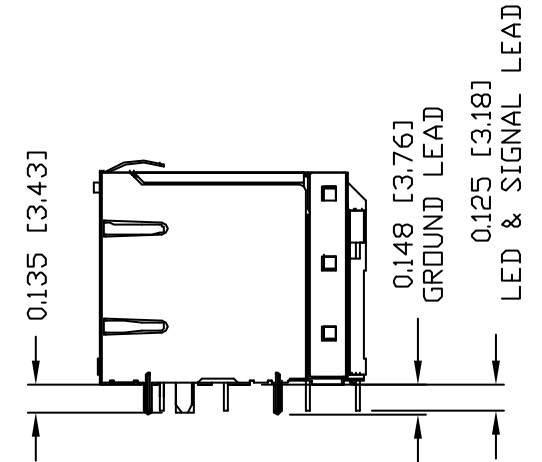
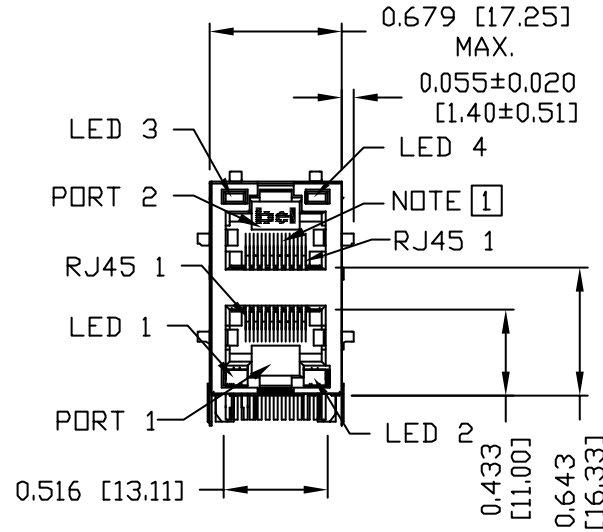
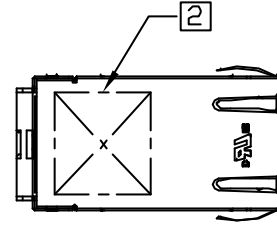
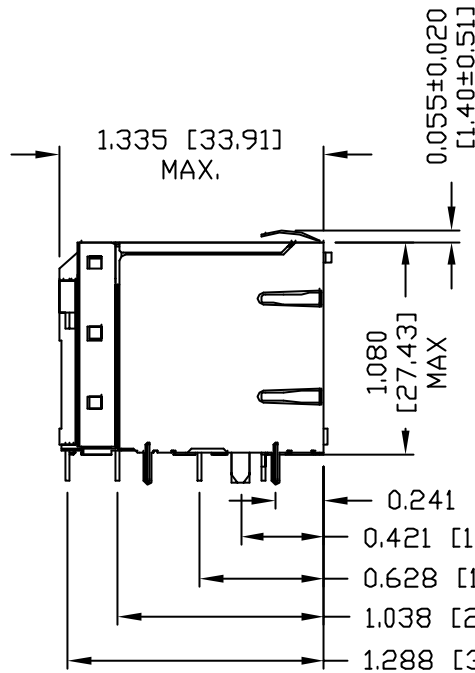
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE		
CHUNG	08-11-05	2X1 MagJack® (with LED)	0845-2D1T-H5	TOL. IN INCH	UNIT : INCH [mm]	REV. : PB	 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4	
DE	08-11-05		08452D1TH5PB.DWG	.XX .XXX		PAGE : 3	

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RoHS
2002/95/EC



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 COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)

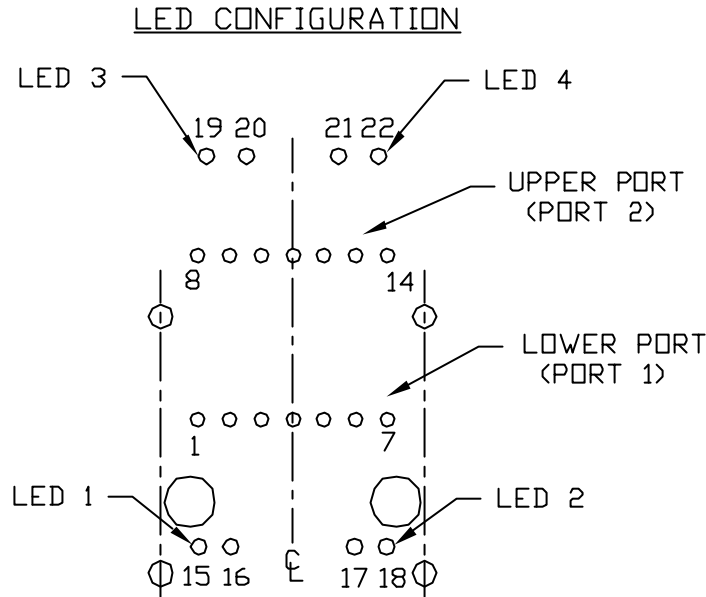
- [1] JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
[2] MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

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

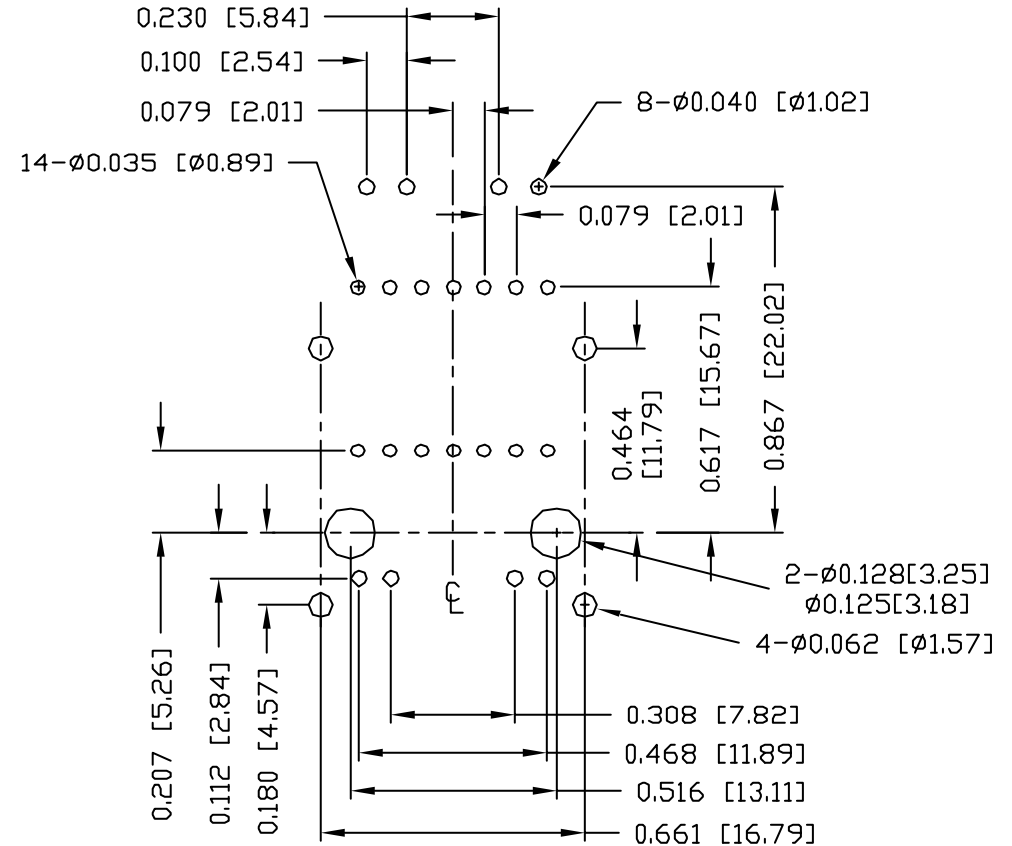
 UL RECOGNIZED - FILE #E196366 AND E169987.

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	08-11-05		0845-2D1T-H5	TOL. IN INCH		UNIT : INCH [mm]	REV. : PB	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
QIN	08-11-05		08452D1TH5PB.DWG	.XX				
			.XXX	±0.010				

PRELIMINARY



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



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

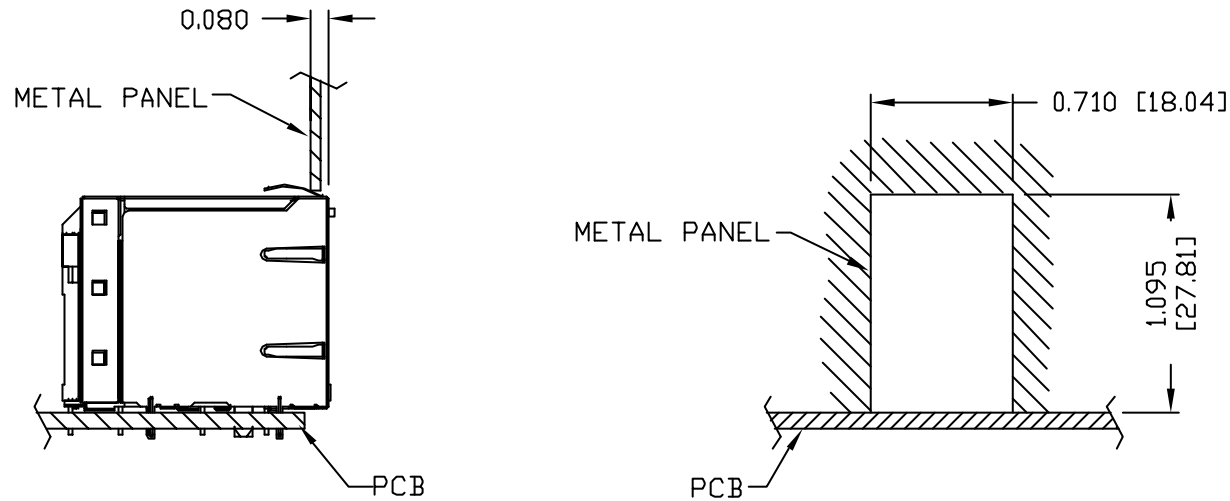
ORIGINATED BY	DATE	TITLE 2X1 MagJack® (with LED)	PART NO. / DRAWING NO. 0845-2D1T-H5		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
BILL/KEUNG	08-11-05		FILE NAME 08452D1TH5PB.DWG		.X		UNIT : INCH [mm]	REV. : PB	
DRAWN BY	DATE				.XX		SCALE : N/A	SIZE : A4	
QIN	08-11-05				.XXX	±0.010		PAGE : 5	

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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-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	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
BILL/KEUNG	08-11-05	2X1 MagJack® (with LED)	0845-2D1T-H5	.X	UNIT : INCH [mm]	REV. : PB
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A	SIZE : A4
QIN	08-11-05		08452D1TH5PB.DWG	.XXX ±0.005		PAGE : 6

