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LED4 POLARITY			LED3 POLARITY		
PIN 27	PIN 28	COLOR	PIN 29	PIN 30	COLOR
+	-	GREEN	+	-	YELLOW
-	+	ORANGE			

PRELIMINARY



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

CL @ 100kHz,100mVRMS

8mA DC BIAS	350 µH MIN.
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INS. LOSS

100kHz TO 100MHz	-1.1 dB MAX
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RET. LOSS (MIN)

1MHz-30MHz	-18 dB
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30MHz-60MHz	-16 dB
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60MHz-80MHz	-14 dB
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80MHz-100MHz	-12 dB
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CM TO CM REJ

100kHz - 100MHz	-25 dB TYP
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CROSS TALK

1MHz - 60MHz	-35 dB TYP
--------------	------------

60MHz - 100MHz	-25 dB TYP
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HIPOT (Isolation Voltage):

1500 Vrms

INTERWINDING CAPACITANCE

PER CHANNEL (PRI. TO SEC.)	50pF Max @ 1MHz
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DC RESISTANCE

(21-15)=(16-23)=(24-18)=(19-26)	1.2 ohms Max
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(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max
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OPERATING TEMPERATURE:

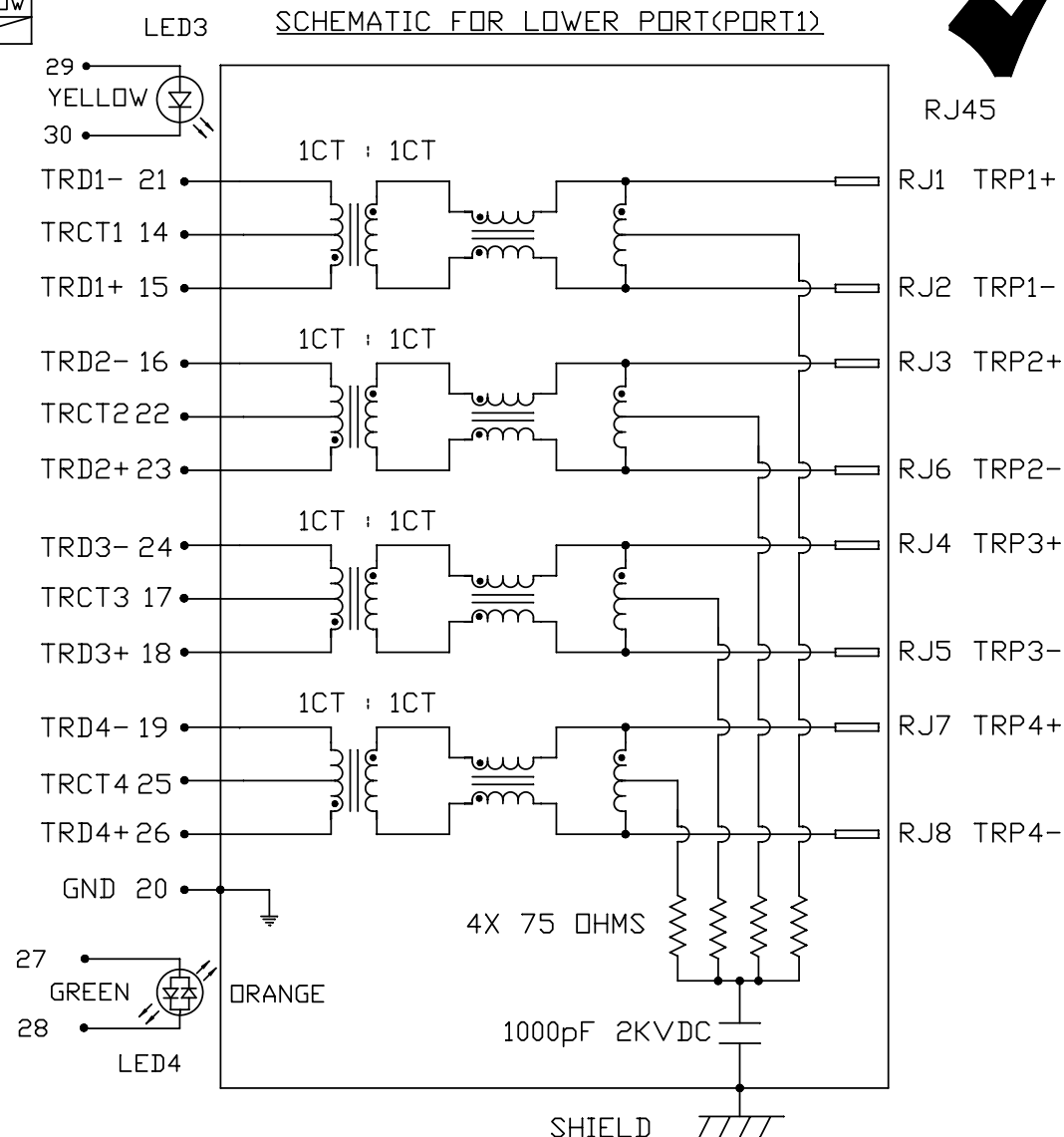
-40 TO +85°C

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.
		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. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
CHOW WANGCHUNG	07-29-09	2X1 gigabit MagJack®	0845-2X1T-DY	.X	UNIT : INCH [mm]
DRAWN BY	DATE	(Extended Temperature of -E4)	FILE NAME	.XX	SCALE : N/A
LEE WEIDE	07-29-09	PATENTED	0845-2X1T-DY_PA.DWG	.XXX	REV. : PA
					SIZE : A4
					PAGE : 2



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LED2 POLARITY			LED1 POLARITY		
PIN 31	PIN 32	COLOR	PIN 33	PIN 34	COLOR
+	-	GREEN	+	-	YELLOW
-	+	ORANGE	-	+	ORANGE

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

OCCL @ 100kHz,100mVRMS

8mA DC BIAS 350 μH MIN.

INS. LOSS

100kHz TO 100MHZ -1.1 dB MAX

RET. LOSS (MIN)

1MHz-30MHz -18 dB

30MHz-60MHz -16 dB

60MHz-80MHz -14 dB

80MHz-100MHz -12 dB

CM TO CM REJ

100kHz - 100MHz -25 dB TYP

CROSS TALK

1MHz - 60MHz -35 dB TYP

60MHz - 100MHz -25 dB TYP

HIPOT (Isolation Voltage): 1500 Vrms

INTERWINDING CAPACITANCE

PER CHANNEL (PRI. TO SEC.) 50pF Max @ 1MHz

DC RESISTANCE

(13-6)=(5-11)=(10-3)=(2-8) 1.2 ohms Max

(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8) 1.2 ohms Max

OPERATING TEMPERATURE: -40 TO +85°C

LED 1 (Super bright)

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

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

LED 2 (Super bright)

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

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

ORANGE 2.0V TYP.

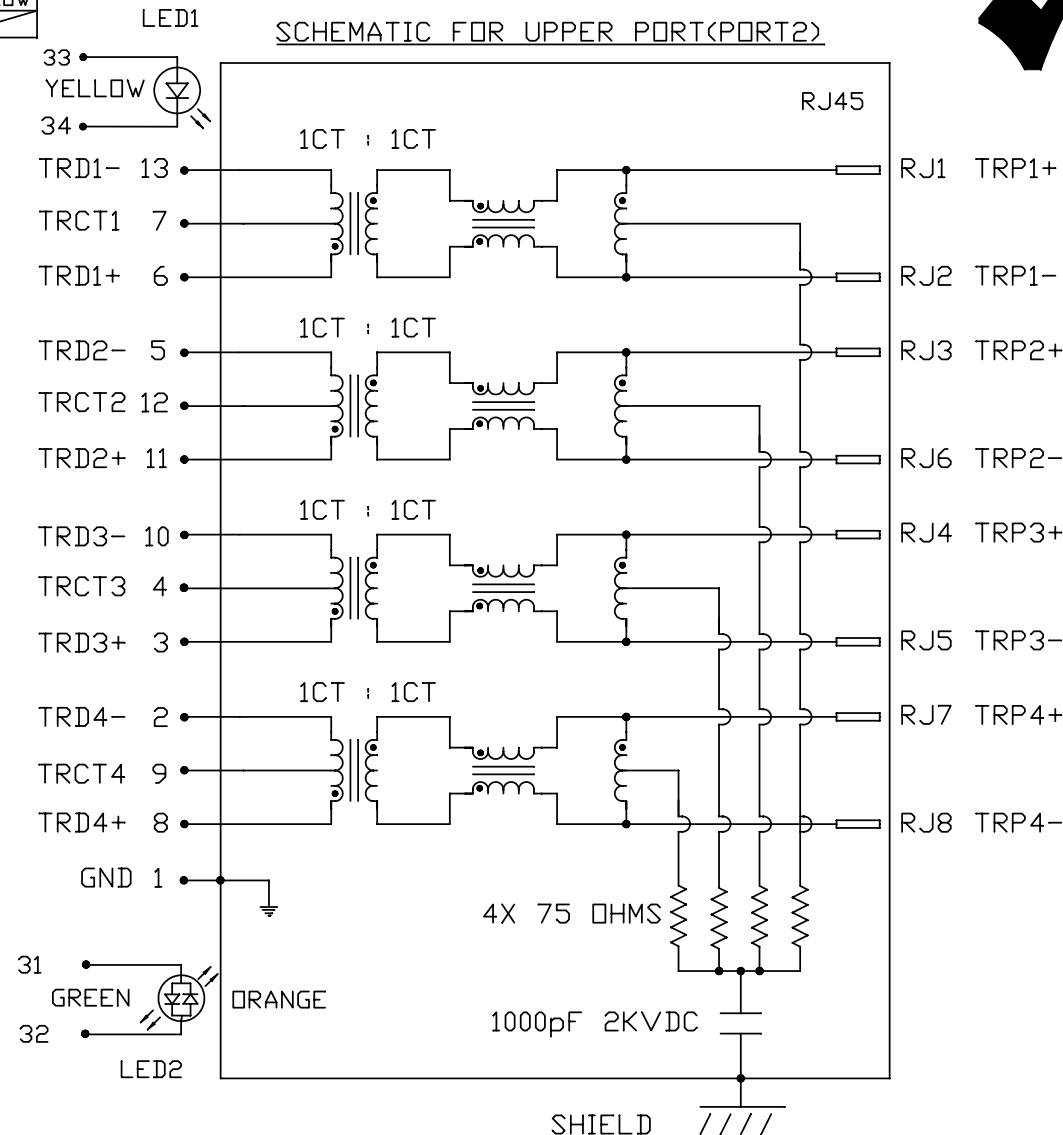
ORANGE 610nm TYP.

PRELIMINARY

RoHS
2002/95/EC



SCHEMATIC FOR UPPER PORT(PORT2)



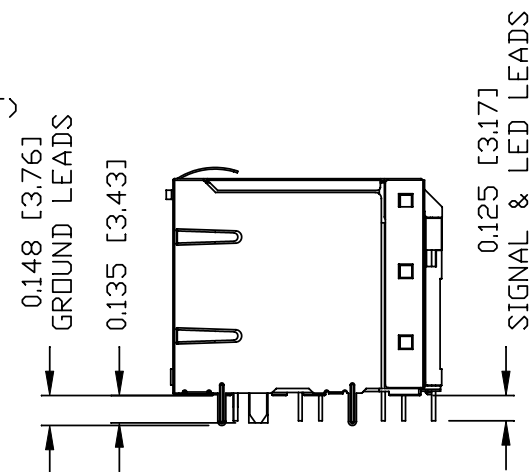
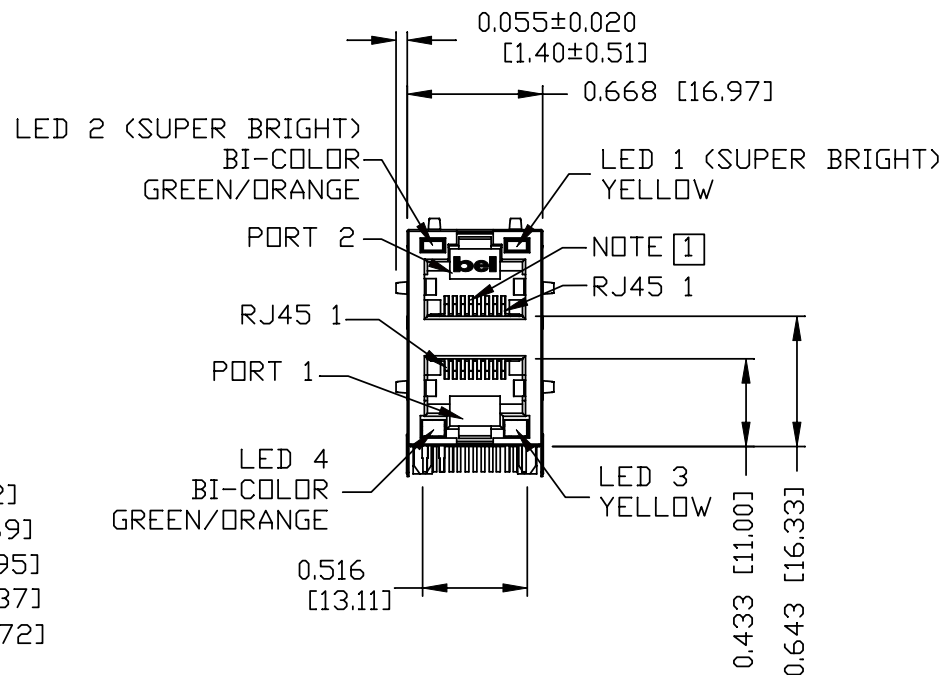
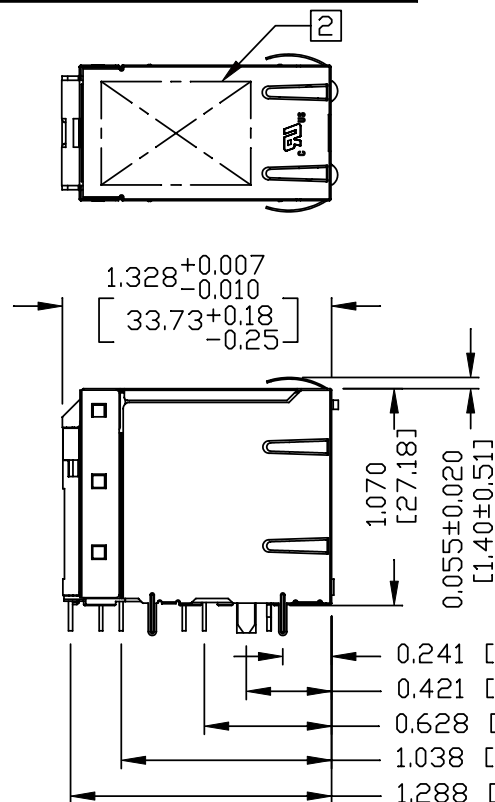
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE
CHOW WANGCHUNG	07-29-09	2X1 gigabit MagJack®	0845-2X1T-DY	TOL. IN INCH	UNIT : INCH [mm]
DRAWN BY	DATE	(Extended Temperature of -E4)	FILE NAME	.X	SCALE : N/A
LEE WEIDE	07-29-09	PATENTED	0845-2X1T-DY_PA.DWG	.XX	SIZE : A4
				.XXX	PAGE : 3



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

1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
2. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND PATENTED.
3. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S. PAT. 5,736,910.



UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
						UNIT : INCH [mm]	REV. : PA
LIU QIN	07-29-09	2X1 gigabit MagJack® (Extended Temperature of -E4)	0845-2X1T-DY	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE	FILE NAME		.XX			PAGE : 4
XIAN JIAXIN	07-29-09	0845-2X1T-DY_PA.DWG		.XXX	±0.010		

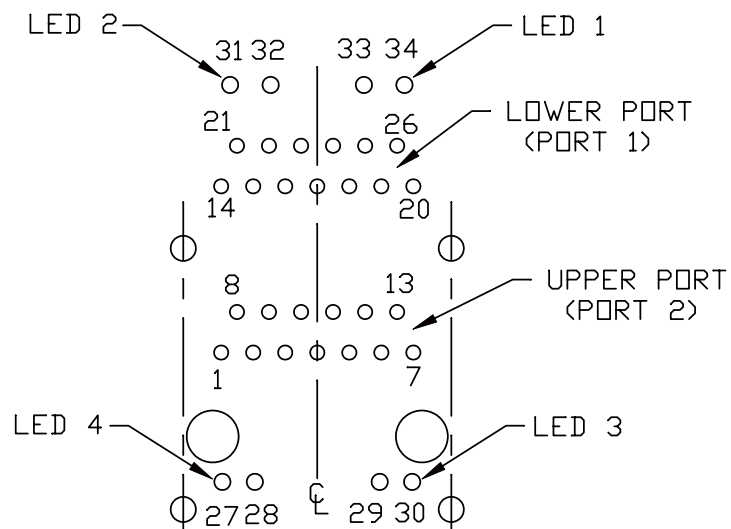


PRELIMINARY

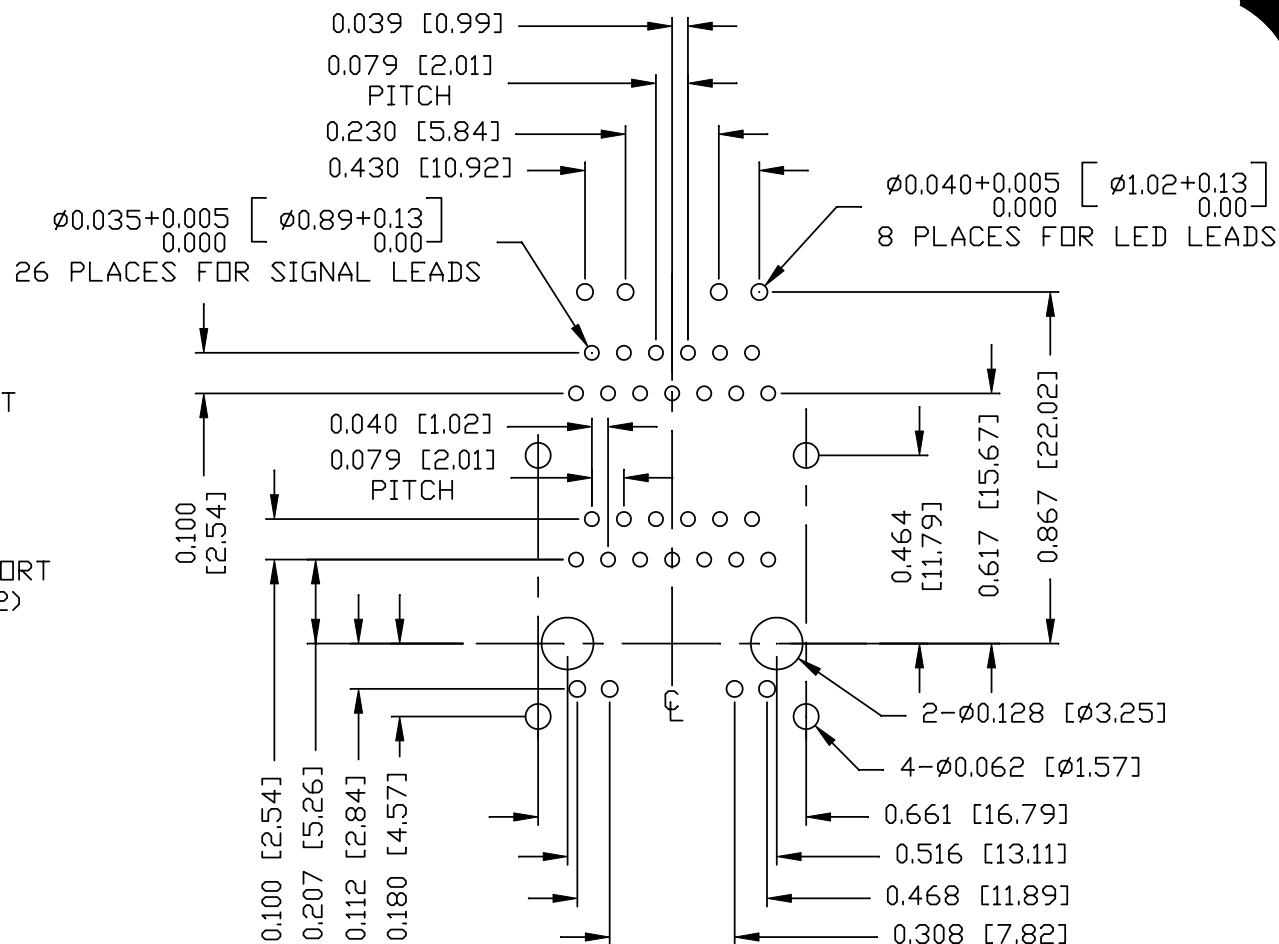
RoHS
2002/95/EC



LED CONFIGURATION



PIN-OUT INFORMATION (COMPONENT SIDE VIEW)



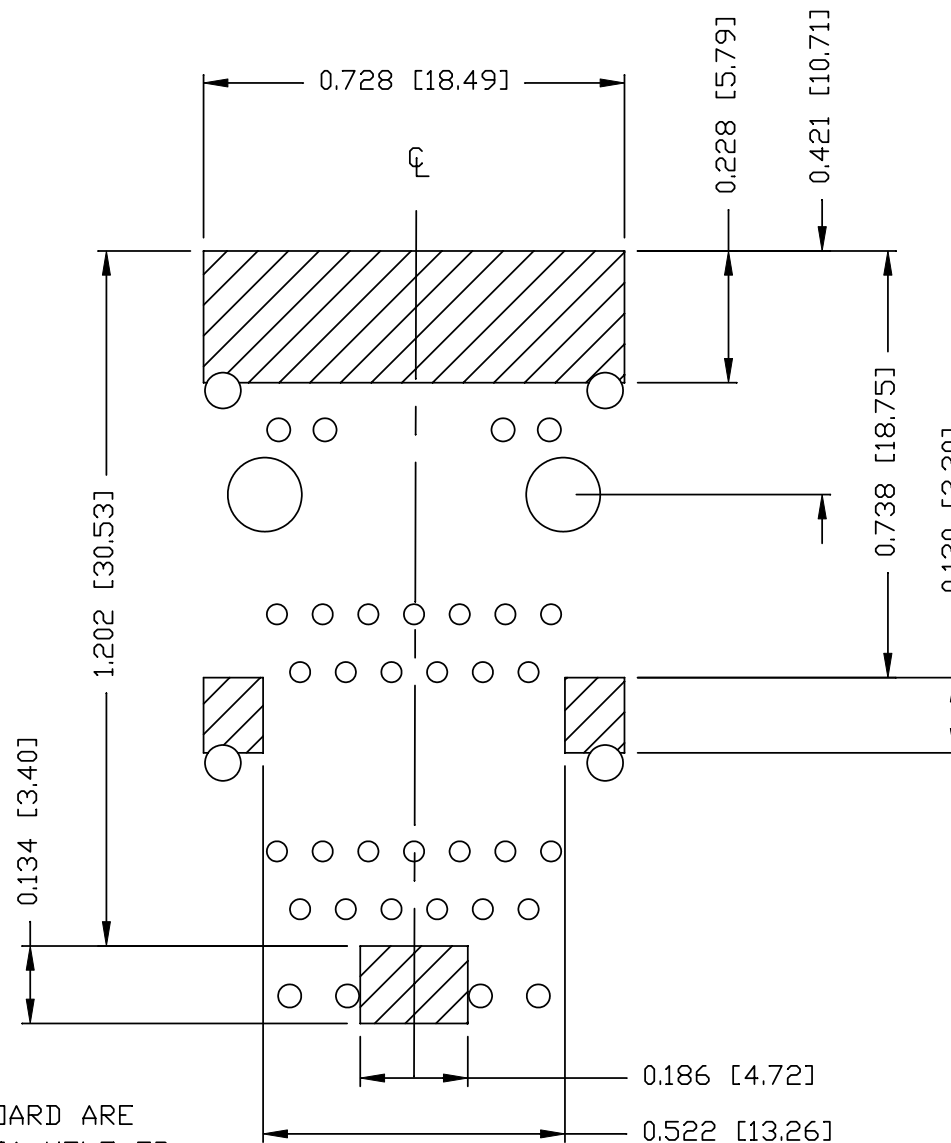
SUGGESTED FOOTPRINT (COMPONENT SIDE VIEW)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : PA
LIU QIN	07-29-09	2X1 gigabit MagJack® (Extended Temperature of -E4)	0845-2X1T-DY	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE	TITLE	FILE NAME	.XX		PAGE : 5	
				.XXX	±0.004		
XIAN JIAXIN	07-29-09	PATENTED	0845-2X1T-DY_PA.DWG				

bel
COMPONENTS FOR A
CONNECTED
PLANET

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NOTES

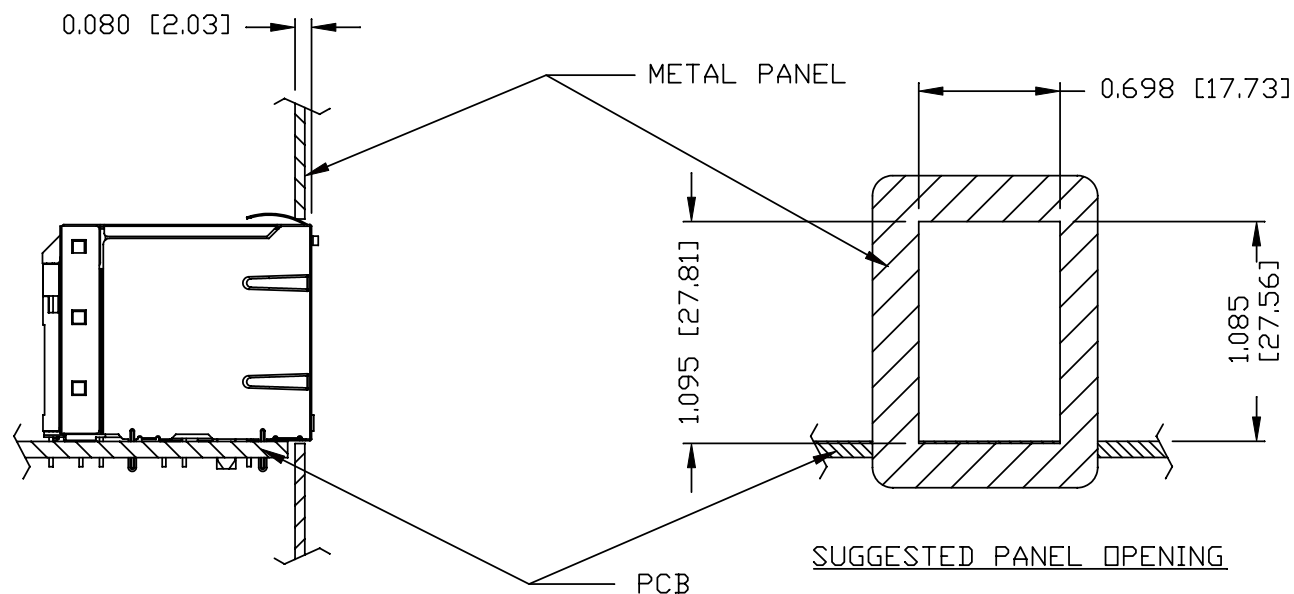
THE SHADED AREA ON THE CUSTOMER BOARD ARE
RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR
COMPONENT PAD.

ORIGINATED BY	DATE	TITLE 2X1 gigabit MagJack® (Extended Temperature of -E4) PATENTED	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 bel COMPONENTS ARE CONNECTED PLANET
LIU QIN	07-29-09		0845-2X1T-DY	TOL. IN INCH		UNIT : INCH [mm]	REV. : PA	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
XIAN JIAXIN	07-29-09		0845-2X1T-DY_PA.DWG	.XX			PAGE : 6	
			.XXX	±0.004				



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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.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : PA
LIU QIN	07-29-09	2X1 gigabit MagJack® (Extended Temperature of -E4)	0845-2X1T-DY	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE	PATENTED	FILE NAME	.XX			PAGE : 7
				.XXX	±0.004		
XIAN JIAXIN	07-29-09		0845-2X1T-DY_PA.DWG				

