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LED 3 POLARITY			LED 4 POLARITY		
PIN 17	PIN 18	COLOR	PIN 15	PIN 16	COLOR
+	-	YELLOW	+	-	GREEN

PRELIMINARY



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX	1CT : 1CT ±3%
RX	1CT : 1CT ±3%

OCL @ 100kHz/100mVRMS

8mA DC BIAS	350µH 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
60MHz-80MHz	-12 dB

CM TO CM REJ

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

1MHz-100MHz	-35 dB TYP
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INTERWINDING CAPACITANCE

PER CHANNEL (PRI. TO SEC.)	30pF TYP @ 1MHz
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DC RESISTANCE

(RJ1-RJ2)=(RJ3-RJ6)	1.8 ohms Max
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PIN4-PIN6	1.1 ohms Max
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PIN1-PIN3	1.1 ohms Max
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HIPOT (Isolation Voltage):	1500 Vrms
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LED 3

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

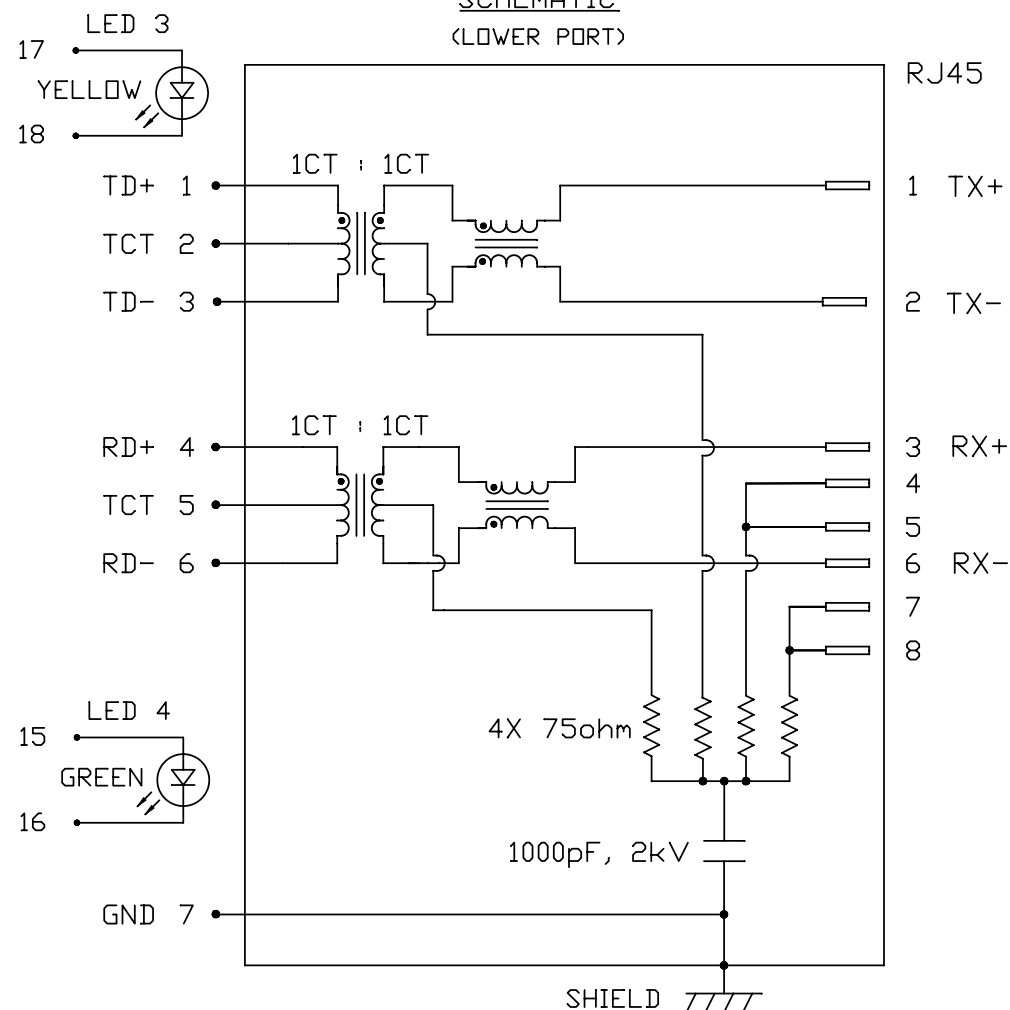
LED 4

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

OPERATING TEMPERATURE:	-40 TO +85 °C
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SCHEMATIC

(LOWER PORT)



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : PB
CHOW WANCHUNG	04-16-09	2X1 MagJack® (with LED) Extended temperature	0845-2A1T-S4	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE			.XX		PAGE : 2	
LEE WEIDE	04-16-09			.XXX			



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LED 1 POLARITY			LED 2 POLARITY		
PIN 21	PIN 22	COLOR	PIN 19	PIN 20	COLOR
+	-	YELLOW	+	-	GREEN

PRELIMINARY

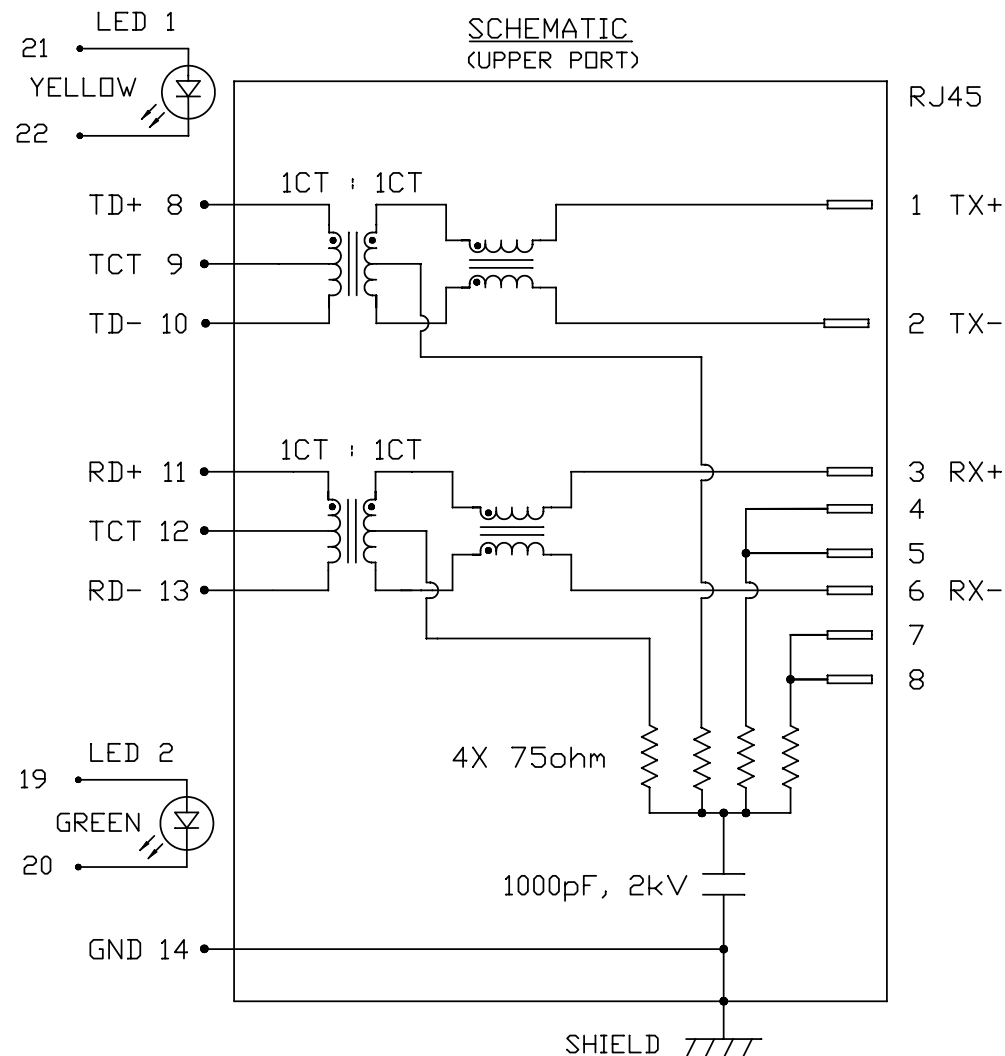


ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX	1CT : 1CT ±3%
RX	1CT : 1CT ±3%
QCL @ 100kHz/100mVRMS	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
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
HIPOT (Isolation Voltage):	1500 Vrms

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.
OPERATING TEMPERATURE:	-40 TO +85 °C



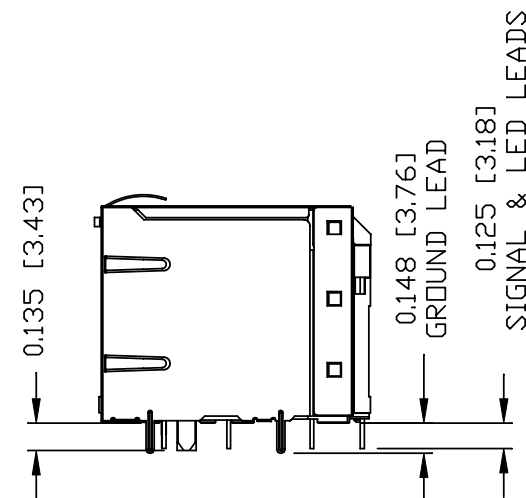
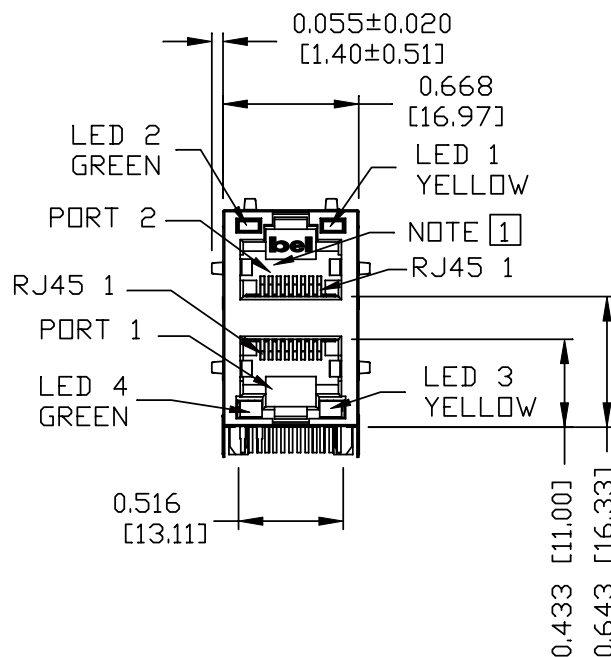
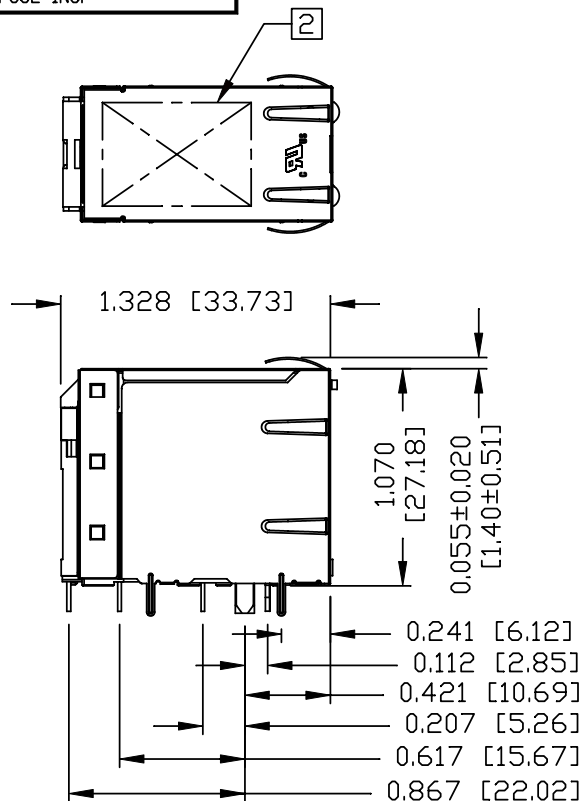
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE
CHOW WANCHUNG	04-16-09	2X1 MagJack® (with LED) Extended temperature	0845-2A1T-S4 FILE NAME 0845-2A1T-S4_PB.DWG	TOL. IN INCH	UNIT : INCH [mm] REV. : PB
DRAWN BY	DATE			.X	SCALE : N/A SIZE : A4
LEE WEIDE	04-16-09			.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.



UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : PB
CHEN BILL	04-16-09	2X1 MagJack® (with LED) Extended temperature	0845-2A1T-S4	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 4
LIU QIN	04-16-09		0845-2A1T-S4_PB.DWG	.XXX	±0.010		

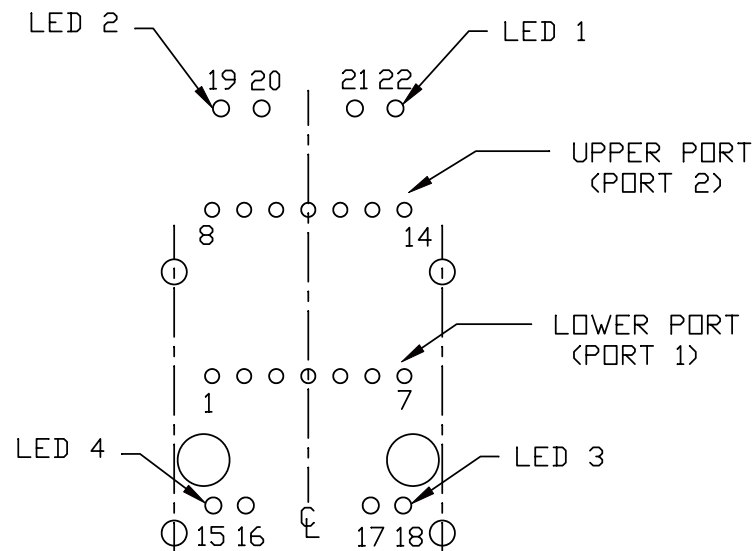


PRELIMINARY

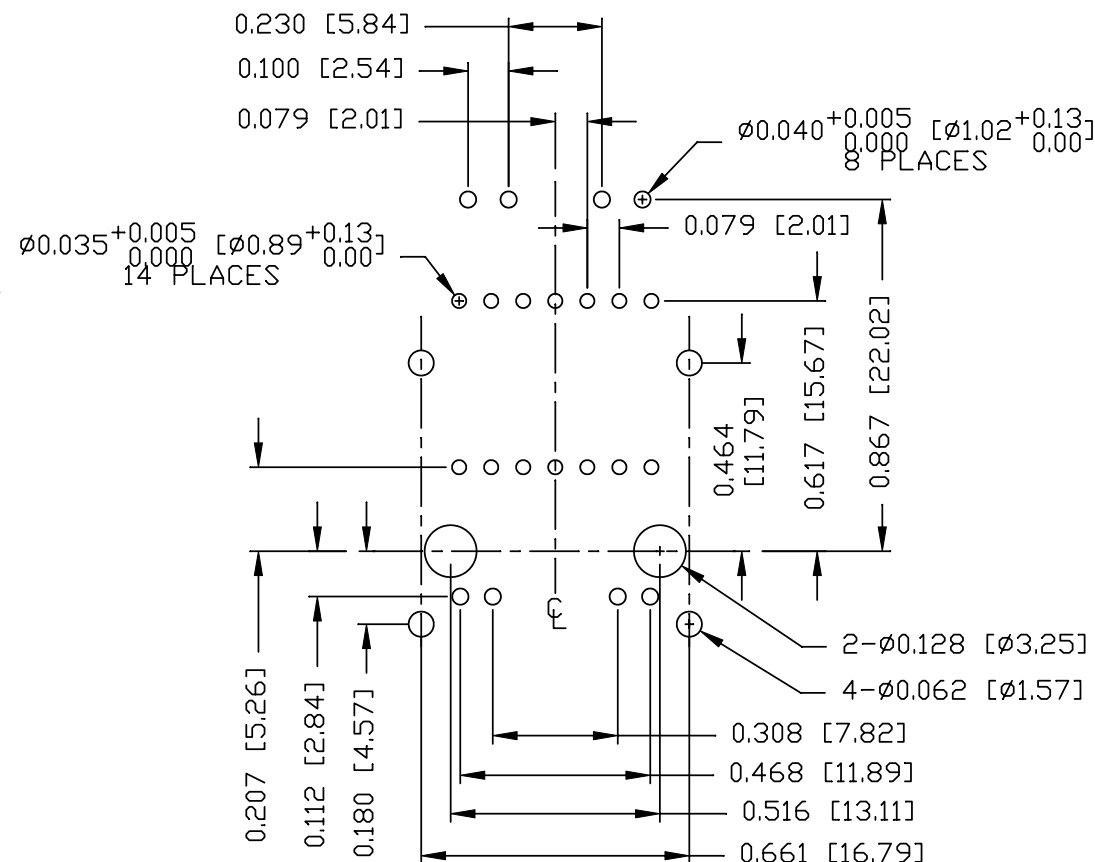
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LED CONFIGURATION



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
CHEN BILL	04-16-09	2X1 MagJack® (with LED)	0845-2A1T-S4	.X	UNIT : INCH [mm]
DRAWN BY	DATE	Extended temperature	FILE NAME	.XX	SCALE : N/A
LIU QIN	04-16-09		0845-2A1T-S4_PB.DWG	.XXX	SIZE : A4
				±0.004	PAGE : 5



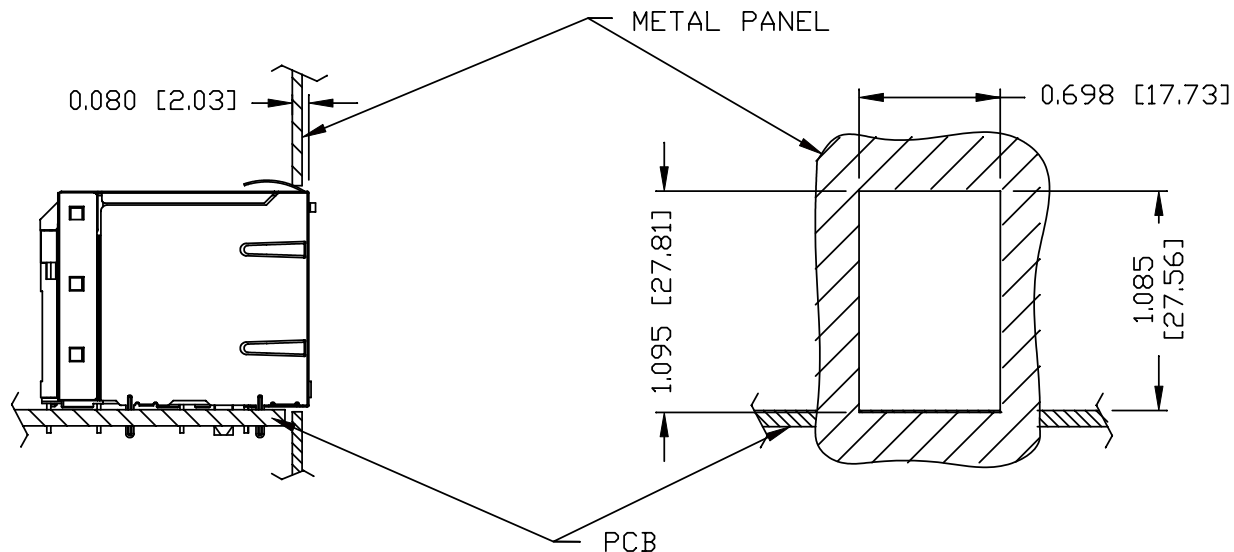
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SUGGESTED PANEL OPENING



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 CHEN BILL	DATE 04-16-09	TITLE 2X1 MagJack® (with LED) Extended temperature	PART NO. / DRAWING NO. 0845-2A1T-S4	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
				.X		UNIT : INCH [mm]	REV. : PB
DRAWN BY LIU QIN	DATE 04-16-09		FILE NAME 0845-2A1T-S4_PB.DWG	.XX		SCALE : N/A	SIZE : A4
				.XXX	±0.004		PAGE : 6

bel
COMPONENTS FOR A
CONNECTED
PLANET