

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS
2002/95/EC



ELECTRICAL CHARACTERISTICS @ 25°C

Turns Ratio

TX 1CT : 1

RX 1CT : 1

OCL @ 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):

100% OF PRODUCTION TESTED TO COMPLY
WITH IEEE 802.3 ISOLATION REQUIREMENTS.

LED 1

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

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

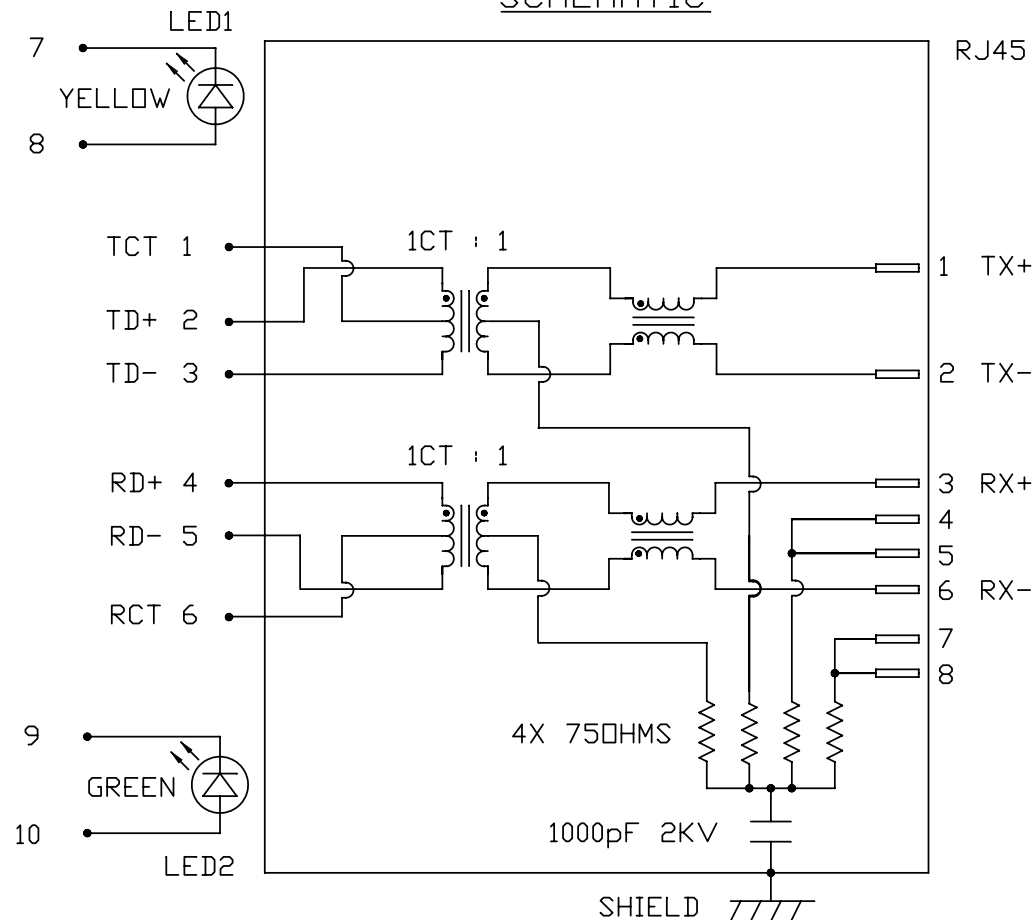
LED 2

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

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

LED1 POLARITY			LED2 POLARITY		
PIN 7	PIN 8	COLOR	PIN 9	PIN 10	COLOR
-	+	YELLOW	-	+	GREEN

SCHEMATIC



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
CHOW WANCHUNG	06-24-11	MagJack® Combo	08C2-1A1T-06	.X	UNIT : INCH [mm]
DRAWN BY	DATE	(4 Cores, MDIX, CM TERMINATION)	FILE NAME	.XX	SCALE : N/A
TAN QIGUANG	06-24-11	PATENTED	08C2-1A1T-06_A.DWG	.XXX	SIZE : A4
					PAGE : 2

bel
COMPONENTS FOR A
CONNECTED
PLANET

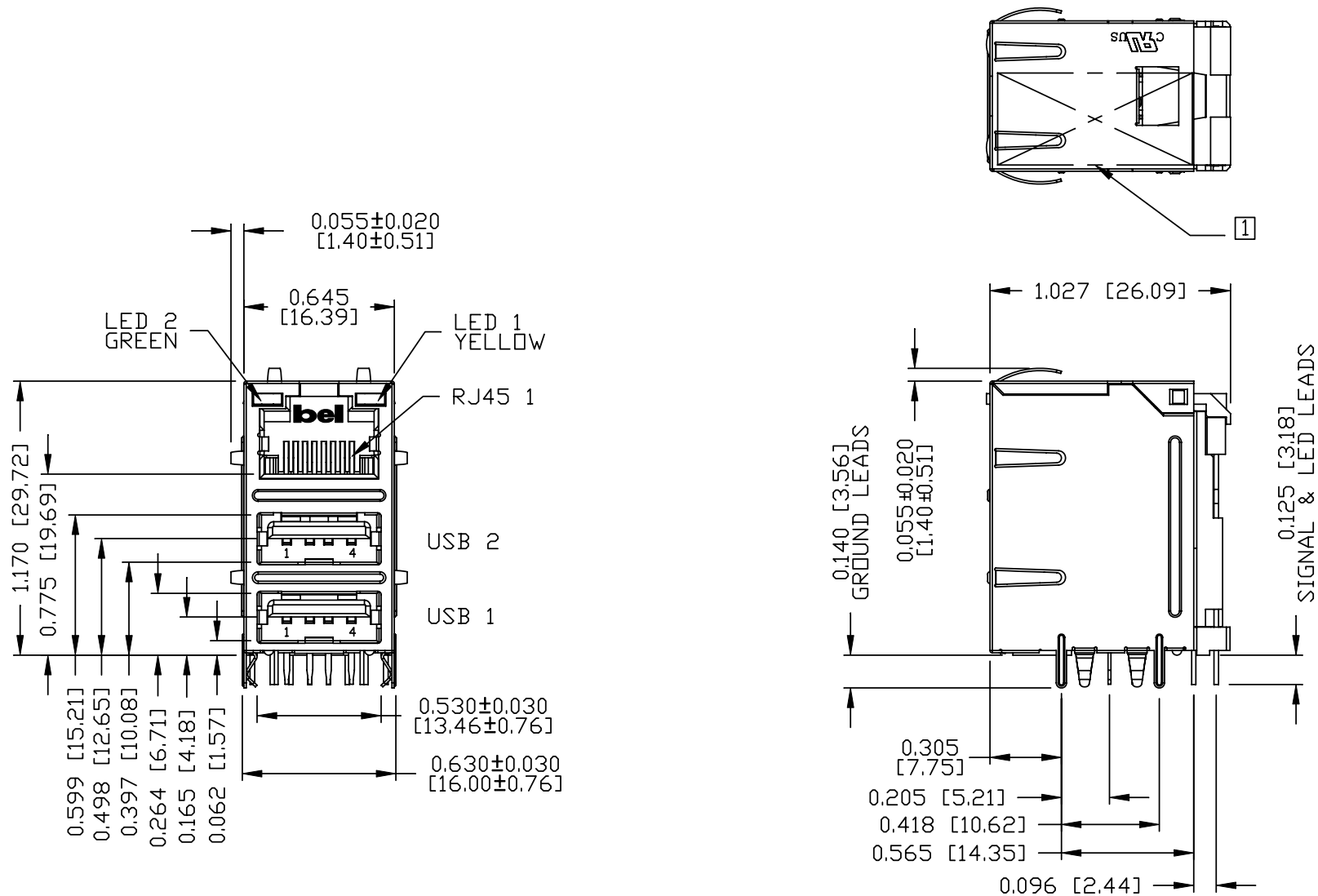
DC002(2)051509

This document is electronically generated. This is a controlled copy if used internally

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

MECHANICAL SPECIFICATION

RoHS
2002/95/EC

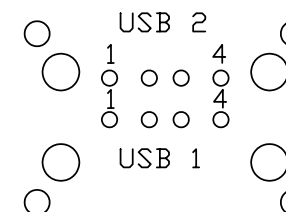
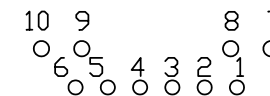
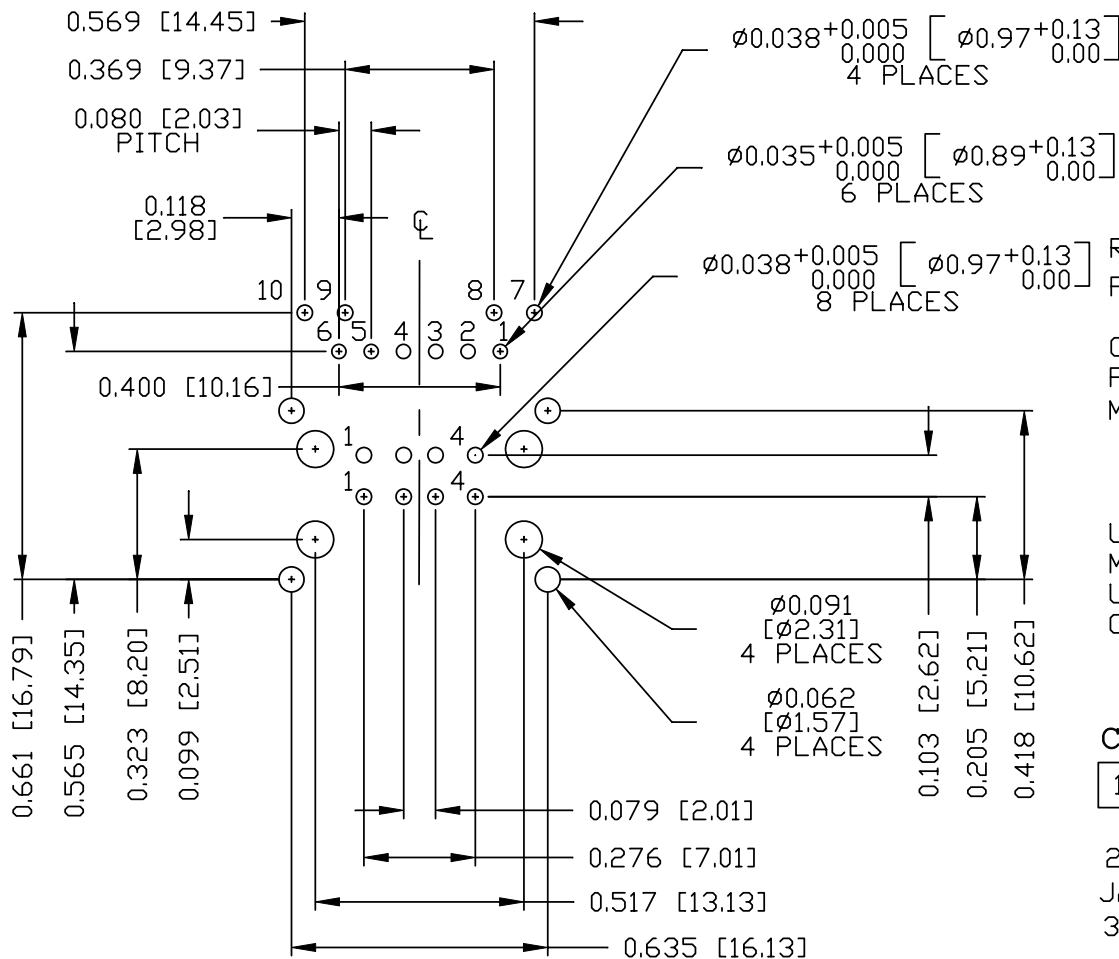


ORIGINATED BY	DATE	TITLE MagJack® Combo (4 Cores, MDIX, CM TERMINATION) PATENTED	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 bel COMPONENTS FOR A CONNECTED PLANET™
CHEN BILL	06-24-11		08C2-1A1T-06	TOL. IN INCH		UNIT : INCH [mm]	REV. : A	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
HE ZHEN	06-24-11	08C2-1A1T-06_A.DWG	.XX			PAGE : 3		
			.XXX	±0.010				





Recommended PCB footprint
Component Side



RJ45 MECHANICAL:
PLASTIC HOUSING:
CONTACT PLATING:
PINS:
METAL SHIELD:

THERMOPLASTIC PBT OR EQUIVALENT.
FLAMMABILITY RATING UL 94V-0
30 MICRO-INCH HARD GOLD PLATING
TIN-COATED COPPER WIRE, DIA 0.018 INCH.
NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)

USB MECHANICAL:
MATING FORCE:
UNMATING FORCE:
CONTACT:

35 NEWTONS MAXIMUM
10 NEWTONS MINIMUM
PHOSPHOR BRONZE
30 MICRO-INCH GOLD PLATING ON CONTACT
AREA AND TIN ON SOLDER TAIL.

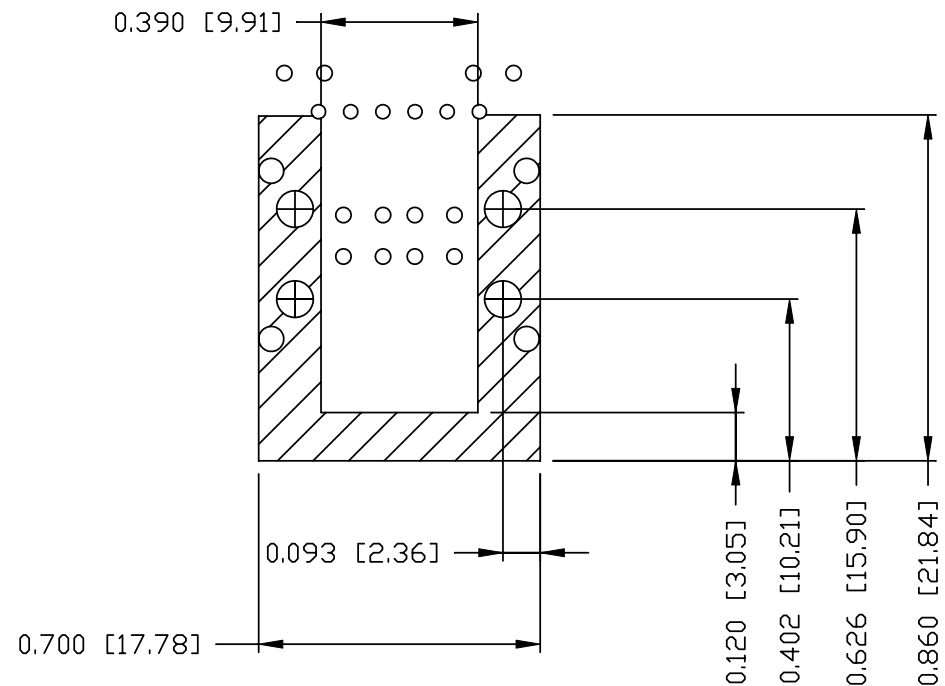


UL RECOGNIZED - FILE #E196366 AND E169987.

1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND PATENTED.
2. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.
3. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S. PAT. 5,736,910.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE
CHEN BILL	06-24-11	MagJack® Combo	08C2-1A1T-06	TOL. IN INCH	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE	(4 Cores, MDIX, CM TERMINATION)	FILE NAME	.X	SCALE : N/A SIZE : A4
HE ZHEN	06-24-11	PATENTED	08C2-1A1T-06_A.DWG	.XX	PAGE : 4
				.XXX	





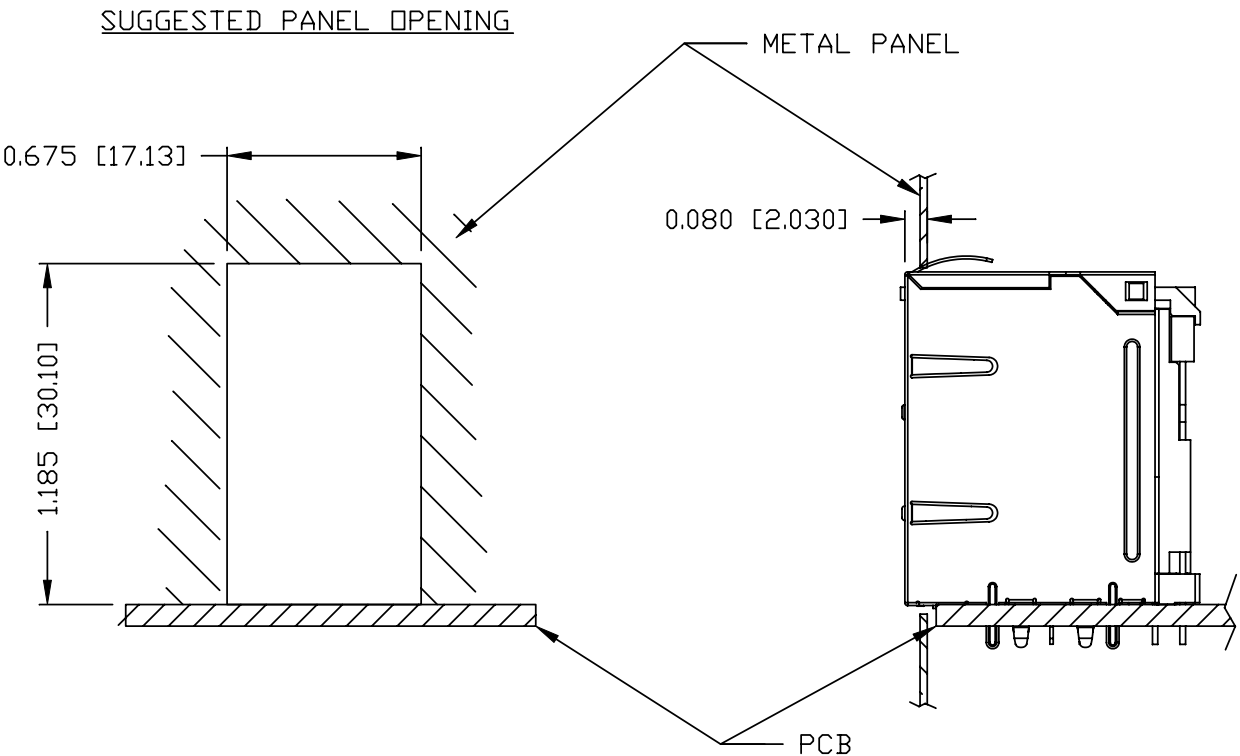
NOTES

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

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : A
CHEN BILL	06-24-11	MagJack® Combo <4 Cores, MDIX, CM TERMINATION> PATENTED	08C2-1A1T-06	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 5
HE ZHEN	06-24-11		08C2-1A1T-06_A.DWG	.XXX	±0.004		



THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.



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-A3
PACKING QUANTITY : 42 PCS FINISHED GOODS PER TRAY
10 TRAYS (420 PCS FINISHED GOODS) PER CARTON BOX
NOTE : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX
(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : A
CHEN BILL	06-24-11	MagJack® Combo (4 Cores, MDIX, CM TERMINATION) PATENTED	08C2-1A1T-06	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 6
HE ZHEN	06-24-11		08C2-1A1T-06_A.DWG	.XXX	±0.005		

