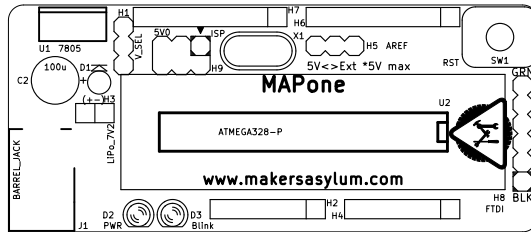
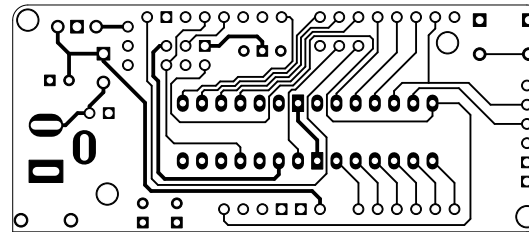


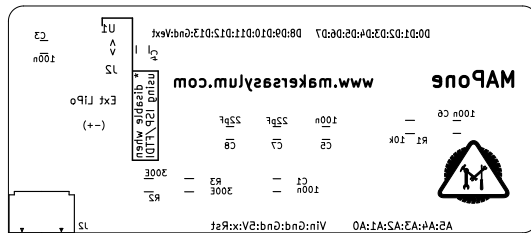
Front, Legend



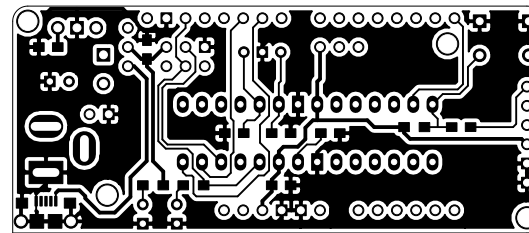
Front, Copper



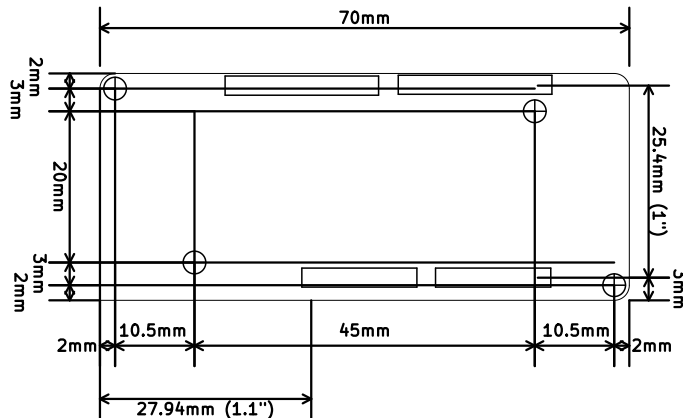
Back, Legend



Back, Copper



Dimensions



NOTES :

1. Arduino headers are arranged in same sequence as Duemilenova
2. Gap between headers is 25.4mm (1.0") against 48.26mm (1.9") on Duemilenova.
3. Four mounting holes, drilled to 3.125mm.
4. All SMD parts are on bottom layer.
5. For U2, ATMEGA-328P, use either regular DIP socket, or ZIF socket.

Parts List

Item Ref No	Qty	Catalog	Part Description	Part Value	Part Package	Manufacturer's Name	Manufacturer's Part No.
1 C1, C3, C4, C5, C6	5	Capacitor	CAP CER 0.1uF 50V 10% X7R 0805	100nF, 50V	0805 (2012 Metric)	Samsung Electro-Mechanics America, Inc	CL21B104KBCNNC
2 C7, C8	2	Capacitor	CAP CER 22pF 50V 5% NP0 0805	22pF, 50V	0805 (2012 Metric)	Samsung Electro-Mechanics America, Inc	CL21C220JBANFNC
3 R1	1	Resistor	RES SMD 10K 0805 1% 1/8W 0805	10k	0805 (2012 Metric)	Stackpole Electronics Inc	RMCF0805FT10K0
4 R2, R3	2	Resistor	RES SMD 300 OHM 5% 1/8W 0805	300E	0805 (2012 Metric)	Panasonic Electronic Components	ERJ-6GEYJ301V
5 C2	1	Capacitor	CAP ALUM 1000uF 35V 20% RADIAL	100uF, 35V	2.5mm pitch, Radial	Kemet	ESK107M035AE3AA
6 D1	1	Diode	DIODE GEN PURPOSE 1A DO41	1N4007	DO-204AL, DO-41, Axial	Micro Commercial Co	1N4007-TP
7 D2	1	Led	LED RED DIFF 3MM 625NM	LED PWR	Round with Domed Top, 3mm, T-1	Kingbright	WP710A101D
8 D3	1	Led	LED GREEN DIFF 3MM 568NM	LED_BLINK	Round with Domed Top, 3mm, T-1	Kingbright	WP710A106D
9 J1	1	Connector	CONN POWER JACK 2.1MM X 5.5MM	BARREL JACK	2.1mm ID, 5.5mm OD, 3 terminals	CUI Inc	PJ-002A
10 SW1	1	Switch	SWITCH TACTILE SPST-NO 0.05A 12V	SW_RST	6.00mm x 6.00mm	TE Connectivity	1825910-6
11 U1	1	IC	IC REG LDO 5V 1A TO220AB	7805	TO-220-3	ON Semiconductor	NCP7805TG
12 U2	1	IC	IC MCU 8BIT 32KB FLASH 28DIP	Atmega328p	28-DIP (0.300", 7.62mm)	Atmel	ATMEGA328P-PU
13 X1	1	Crystal	Xtal_16MHz	CRYSTAL 16MHZ 20PF THRU HOLE	Through Hole, HC49/US, 0.2" pitch	TXC CORPORATION	9B-16.000MBK-B
14 H1, H3, H5, H8,	1	Connector	Male Header, 0.1"	V_SEL, AREF, FTDI	Header, Unshrouded, male, 0.100" (2.54mm)	Sullins Connector Solutions	PREC0405AAN-RC
15 H9	1	Connector	CONN HEADER 0.100" DUAL STR 6POS	ISCP	Header, Unshrouded, male, 0.100" (2.54mm)	Sullins Connector Solutions	PREC003DAAN-RC
16 --	1	Socket	CONN IC SOCKET VERT 28POS TIN	--	IC socket, 28 pin, 0.3"	On Shore Technology Inc	ED281DT
OPTIONAL							
17 H2, H4	2	Connector	CONN HEADER FEMALE 6POS 1" TIN	Power, Analog	Through Hole, Female Socket, 0.100" (2.54mm)	Sullins Connector Solutions	PPTC061LFBN-RC
18 H6, H7	2	Connector	CONN HEADER FEMALE 8POS 0.1" TIN	IO_L, IO_H	Through Hole, Female Socket, 0.100" (2.54mm)	Sullins Connector Solutions	PPTC081LFBN-RC
19 J2	1	Connector	CONN USB MICRO B RECP T SMT R/A	USB_Micro B	Surface Mount, Right Angle, Horizontal REFER DATA SHEET	FCI	10118193-0001LF

Maker's Asylum : www.github.com/MakersAsylumIndia

Sheet:

File: MAPone.kicad_pcb

Title: MAPone – Bare Bones Arduino

Size: A4

Date:

Rev: v1

KiCad E.D.A. kicad (2014-12-11 BZR 5320)-product

Id: 1/1