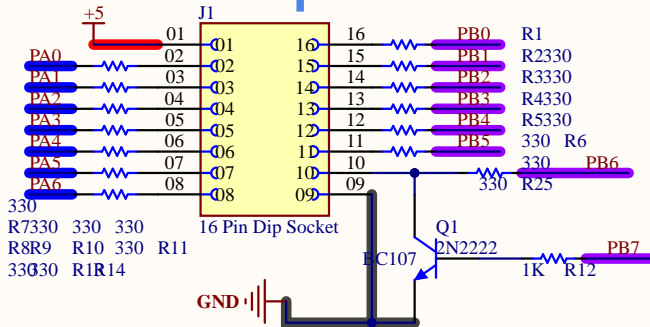


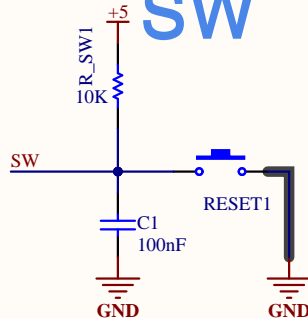
# MCU

## ATmega16 Arshia Madadi

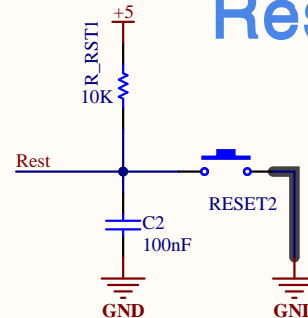
### 16 Pin Dip Socket



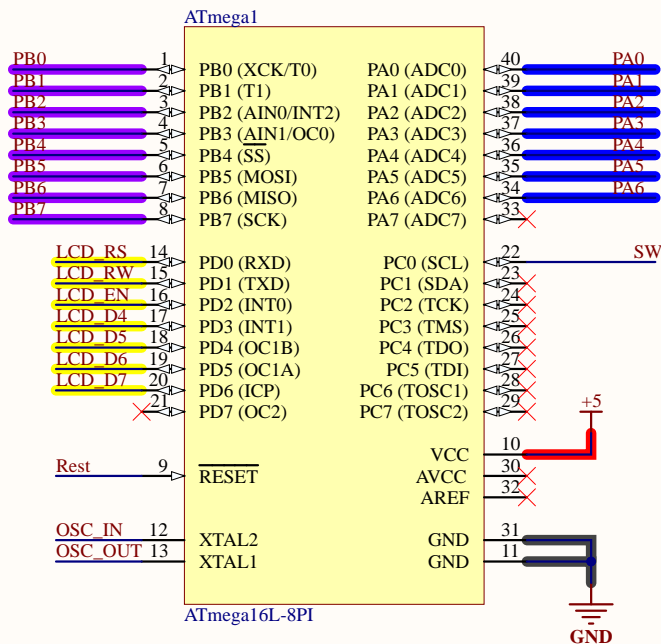
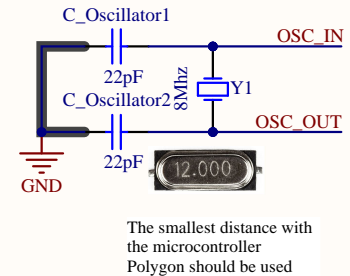
### SW



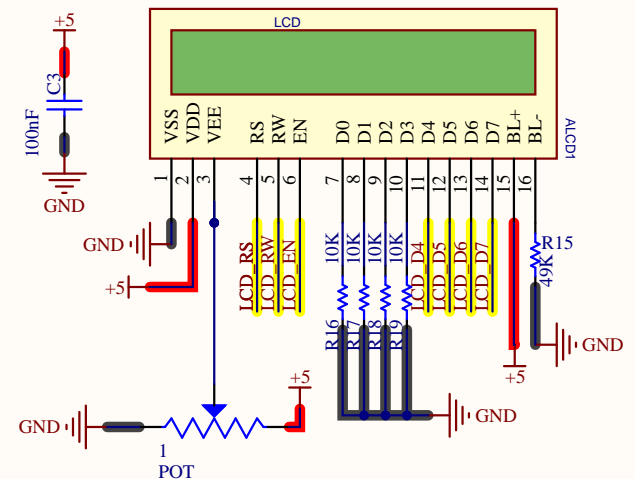
### Rest



### Oscillator



### LCD 2\*16



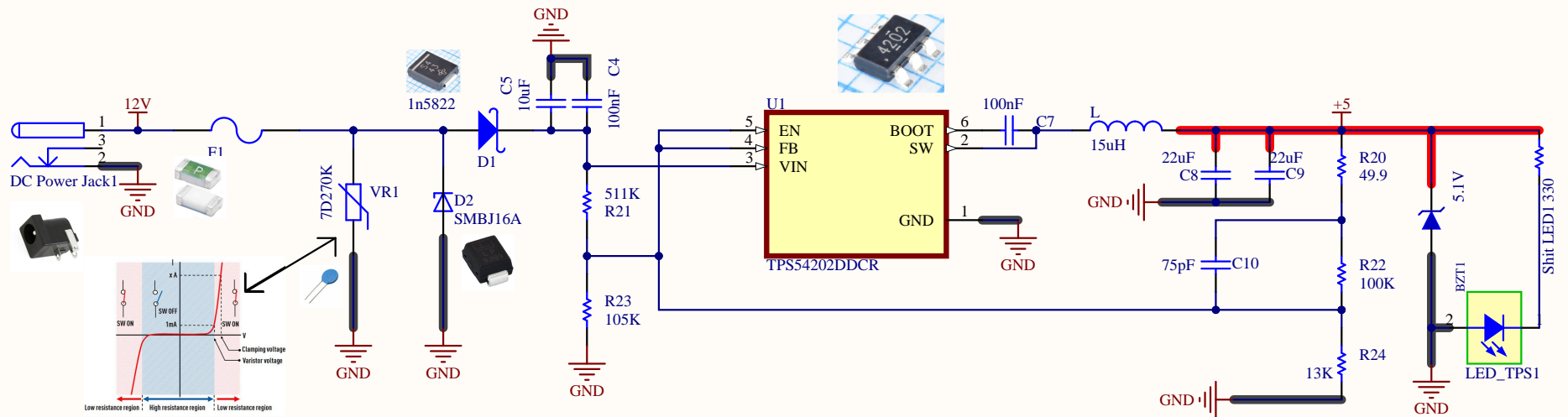
### Ic Tester

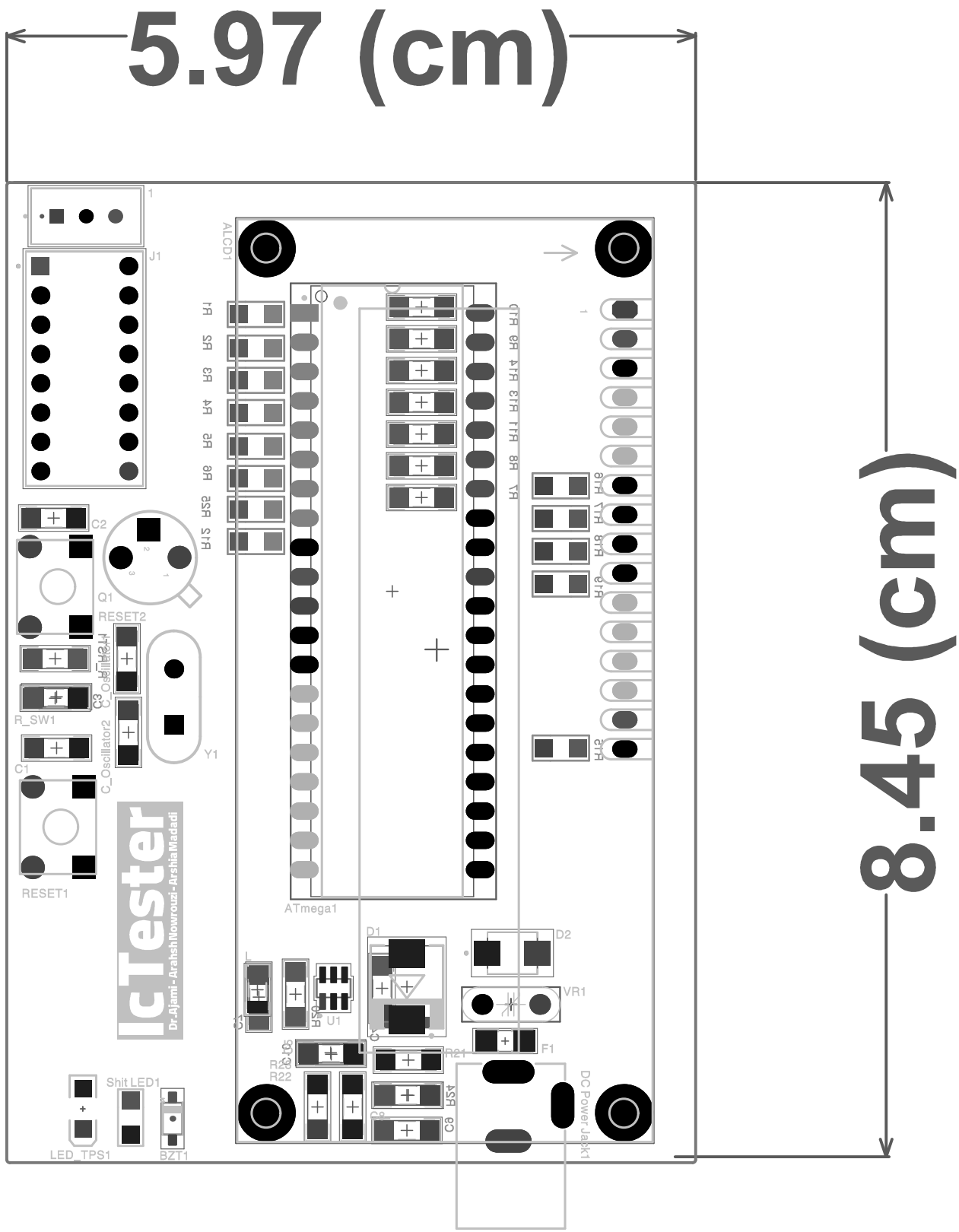
Title	Size	Number	Revision
	A		1
Date:	10/11/2024	Sheet of	
File:	D:\Git\Ic Tester\Ic Tester\MCU.SchDoc	Drawn By:	Arshia Madadi

# POWER

Arshia Madadi

## POWER 12V->5V





Comment	Description	Designator	Footprint	LibRef	Quantity
POT	Trimmer, Potentiometer 10kohm 25turn Thd	1	TRIM_3296W1103LF	3296W1103LF	1
LCD	Alphanumeric LCD	ALCD1	LCD_2X16 BLUE - 2.5mm	LCD	1
ATmega16L-8PI	8-Bit AVR Microcontroller with 16K Bytes of In- System Programmable Flash Memory	ATmega1	40P6	ATmega16L-8PI	1
5.1V	DIODE ZENER GENERAL	BZT1	SOD123	ZENER GENERAL DIODE	1
100nF	CAP 1206	C1, C2, C3, C4, C7	CAPC4817X12N	CAP SMD 1206	5
10uF	CAP 1206	C5	CAPC4817X12N	CAP SMD 1206	1
22uF	CAP 1206	C8, C9	CAPC4817X12N	CAP SMD 1206	2
75pF	CAP 1206	C10	CAPC4817X12N	CAP SMD 1206	1
22pF	CAP 1206	C_Oscillator1, C_Oscillator2	CAPC4817X12N	CAP SMD 1206	2
1n5822	Schottky Rectifiers	D1	DO-214AB(SMC)	1N5822 SMD	1
SMBJ16A	600W, 18.8V, 5%, Unidirectional, TVS	D2	DIOM4336X265N	SMBJ16A	1
DC Power Jack	DC Power Jack. Center Pin 2.5mm. Diameter: 5.7mm	DC Power Jack1	DC Power Jack 1	DC Power Jack	1
F=3.0 A	SMD Fuses 1206	F1	1206 FUSE	Fuse SMD1206	1
16 Pin Dip Socket	DIP Socket, Stamped and Formed	J1	AMPHENOL_DILB16P- 223TLF	DILB16P-223TLF	1
15uH	TOTAL INDUCTOR SMD PACK	L	IND1206	INDUCTOR SMD PACKAGE	1
SMD 1206 LED	SMD 1206 LED	LED_TPS1	LED 1206	LED SMD 1206	1
2N2222	NPN Transistor	Q1	2N2222	2N2222	1
330	Resistor	R1, R2, R3, R4, R5, R6, R25, Shit LED1	1206_Res	Res	8
330	RES 1206	R7, R8, R9, R10, R11, R13, R14	RESC4817X04N	RES 1206 0.25W	7
1K	Resistor	R12	1206_Res	Res	1
49K	Resistor	R15	1206_Res	Res	1
10K	Resistor	R16, R17, R18, R19	1206_Res	Res	4
49.9	RES 1206	R20	RESC4817X04N	RES 1206 0.25W	1
511K	RES 1206	R21	RESC4817X04N	RES 1206 0.25W	1
100K	RES 1206	R22	RESC4817X04N	RES 1206 0.25W	1
105K	RES 1206	R23	RESC4817X04N	RES 1206 0.25W	1
13K	RES 1206	R24	RESC4817X04N	RES 1206 0.25W	1
10K	RES 1206	R_RST1, R_SW1	RESC4817X04N	RES 1206 0.25W	2
Switch PB	Push Button Switch	RESET1, RESET2	Switch - Push to On	Switch PB	2
TPS54202DDCR	4.5V to 28V Input, 2A Output, EMI Friendly Synchronous Step- Down Converter 6- SOT-23-THIN -40 to 125	U1	SOT95P280X110-6N	TPS54202DDCR	1
7D270K	VARISTORS	VR1	07D XXX	VARISTOR (VDR)	1
8Mhz	Crystal Oscillator	Y1	Crystal	XTAL	1