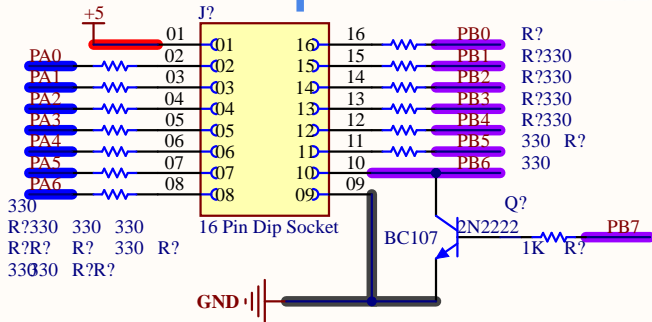


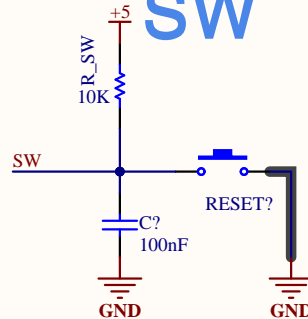
MCU

ATmega16 Arshia Madadi

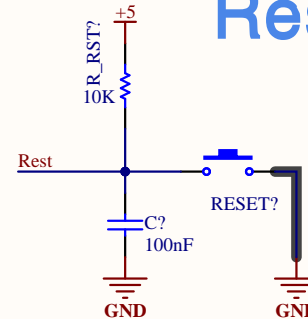
16 Pin Dip Socket



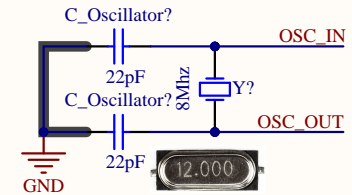
SW



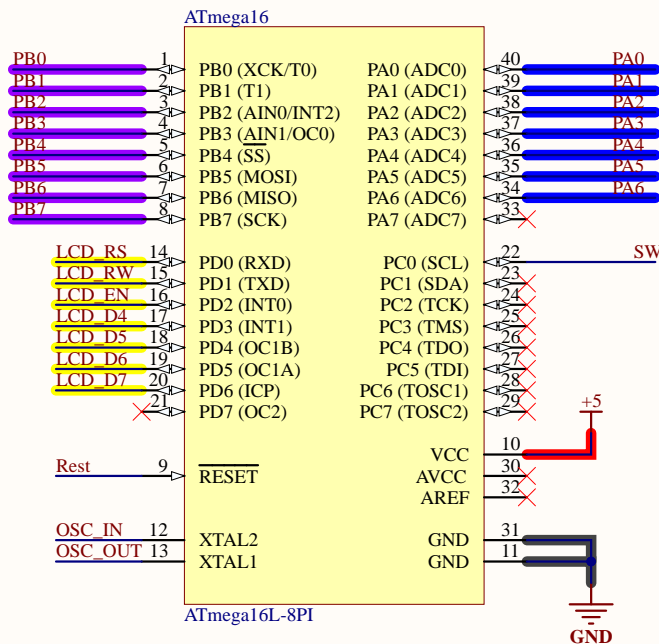
Rest



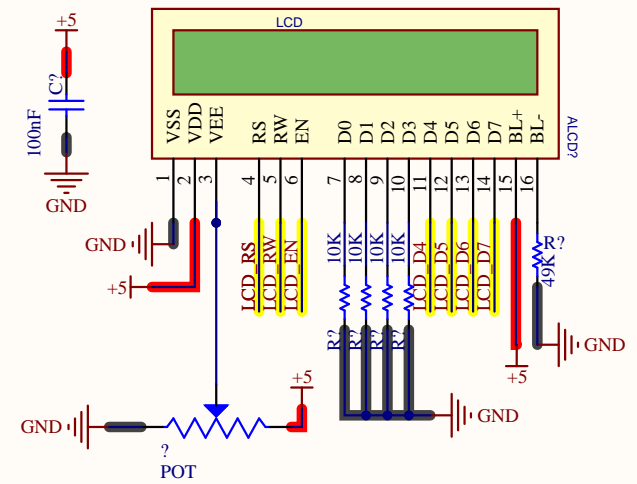
Oscillator



The smallest distance with the microcontroller Polygon should be used



LCD 2*16



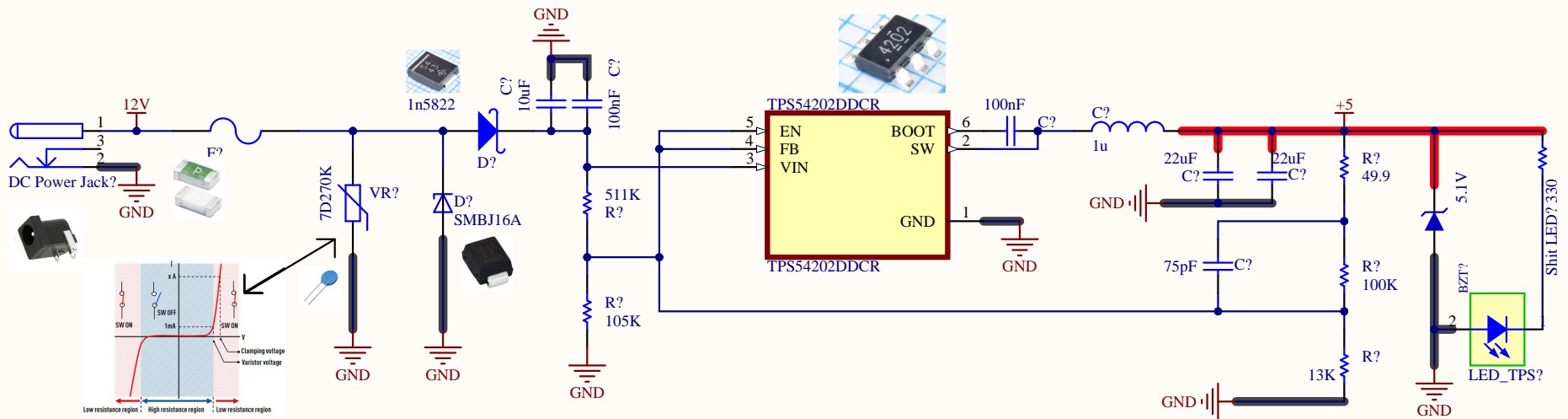
Ic Tester

Size	Number	Revision
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Date:	10/09/2024	Sheet of
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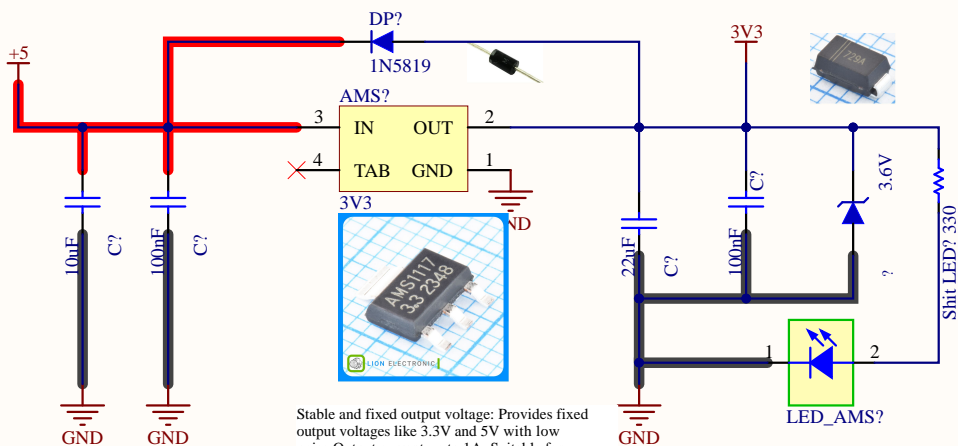
POWER

Arshia Madadi

POWER 12V->5V



POWER 5V->3.3V



Stable and fixed output voltage: Provides fixed output voltages like 3.3V and 5V with low noise. Output current up to 1A: Suitable for powering low-power circuits and microcontrollers.

Comment	Description	Designator	Footprint	LibRef	Quantity
3.6V	DIODE ZENER GENERAL	?	SOD123	ZENER GENERAL DIODE	1
POT	Trimmer, Potentiometer 10kohm 25turn Thd	?	TRIM_3296W1103LF	3296W1103LF	1
LCD	Alphanumeric LCD	ALCD?	LCD_2X16 BLUE - 2.5mm	LCD	1
3V3	x.x Volt, 800mA Low- Dropout Linear Regulator, 4-pin SOT- 223	AMS?	SOT223_M	AMS1117-x.x	1
ATmega16L-8PI	8-Bit AVR Microcontroller with 16K Bytes of In- System Programmable Flash Memory	ATmega16	40P6	ATmega16L-8PI	1
5.1V	DIODE ZENER GENERAL	BZT?	SOD123	ZENER GENERAL DIODE	1
1u	TOTAL INDUCTOR SMD PACK	C?	IND1206	INDUCTOR SMD PACKAGE	1
10uF	TOTAL CAPACITOR SMD PACK	C?	CAP1206	CAP SMD PACKAGE	1
10uF	CAP 1206	C?	CAPC4817X12N	CAP SMD 1206	1
22uF	TOTAL CAPACITOR SMD PACK	C?	CAP1206	CAP SMD PACKAGE	1
22uF	CAP 1206	C?	CAPC4817X12N	CAP SMD 1206	2
75pF	CAP 1206	C?	CAPC4817X12N	CAP SMD 1206	1
100nF	CAP 1206	C?	CAPC4817X12N	CAP SMD 1206	7
22pF	CAP 1206	C_Oscillator?	CAPC4817X12N	CAP SMD 1206	2
1N5822	Schottky Rectifiers	D?	DO-214AB(SMC)	1N5822 SMD	1
SMBJ16A	600W, 18.8V, 5%, Unidirectional, TVS	D?	DIOM4336X265N	SMBJ16A	1
DC Power Jack	DC Power Jack. Center Pin 2.5mm. Diameter: 5.7mm	DC Power Jack?	DC Power Jack 1	DC Power Jack	1
1N5819	Schottkey Rectifiers	DP?	1n58XX DO-201AD	1N5819	1
F=3.0 A	SMD Fuses 1206	F?	1206 FUSE	Fuse SMD1206	1
16 Pin Dip Socket	DIP Socket, Stamped and Formed	J?	AMPHENOL_DILB16P- 223TLF	DILB16P-223TLF	1
SMD 1206 LED	SMD 1206 LED	LED_AMS?, LED_TPS?	LED 1206	LED SMD 1206	2
2N2222	NPN Transistor	Q?	2N2222	2N2222	1
1K	Resistor	R?	1206_Res	Res	1
10K	Resistor	R?	1206_Res	Res	4
13K	RES 1206	R?	RESC4817X04N	RES 1206 0.25W	1
49K	Resistor	R?	1206_Res	Res	1
49.9	RES 1206	R?	RESC4817X04N	RES 1206 0.25W	1
100K	RES 1206	R?	RESC4817X04N	RES 1206 0.25W	1
105K	RES 1206	R?	RESC4817X04N	RES 1206 0.25W	1
330	RES 1206	R?	RESC4817X04N	RES 1206 0.25W	7
511K	RES 1206	R?	RESC4817X04N	RES 1206 0.25W	1
330	Resistor	R?, Shit LED?	1206_Res	Res	8
10K	RES 1206	R_RST?, R_SW	RESC4817X04N	RES 1206 0.25W	2
Switch PB	Push Button Switch	RESET?	Switch - Push to On	Switch PB	2
TPS54202DDCR	4.5V to 28V Input, 2A Output, Synchronous Step-Down Voltage Converter 6-SOT-23- THIN -40 to 125	TPS54202DDCR	SOT95P280X110-6N	TPS54202HDDCR	1
7D270K	VARISTORS	VR?	07D XXX	VARISTOR (VDR)	1
8Mhz	Crystal Oscillator	Y?	Crystal	XTAL	1