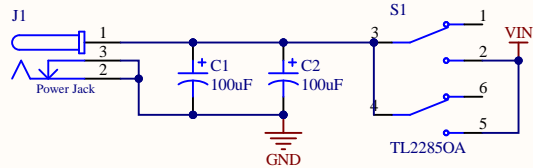
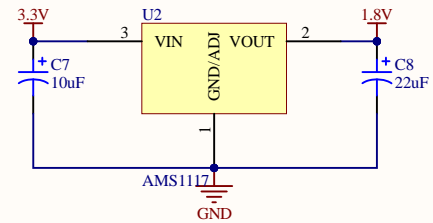


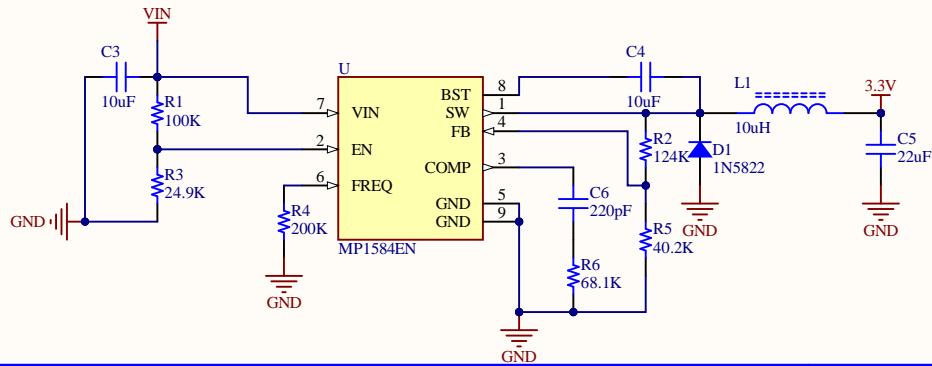
POWER INPUT(12V)



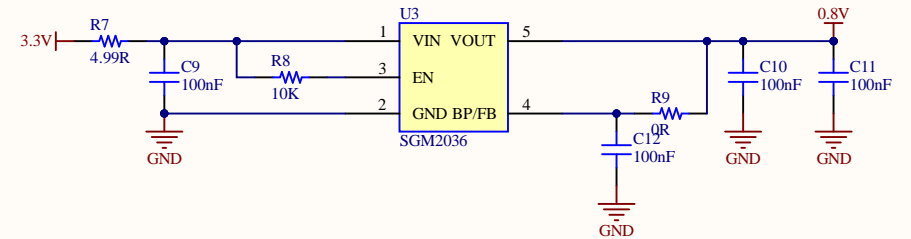
3.3v TO 1.8v



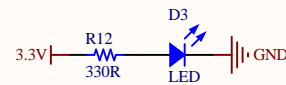
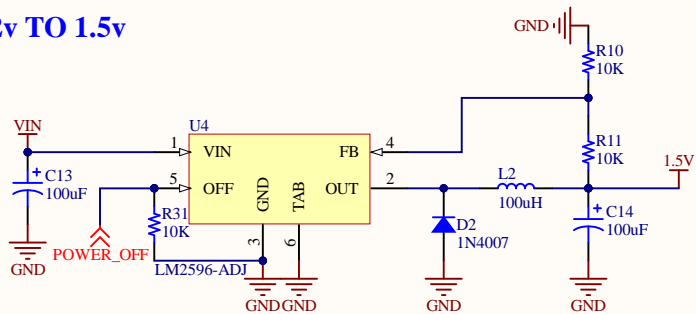
12v TO 3.3v

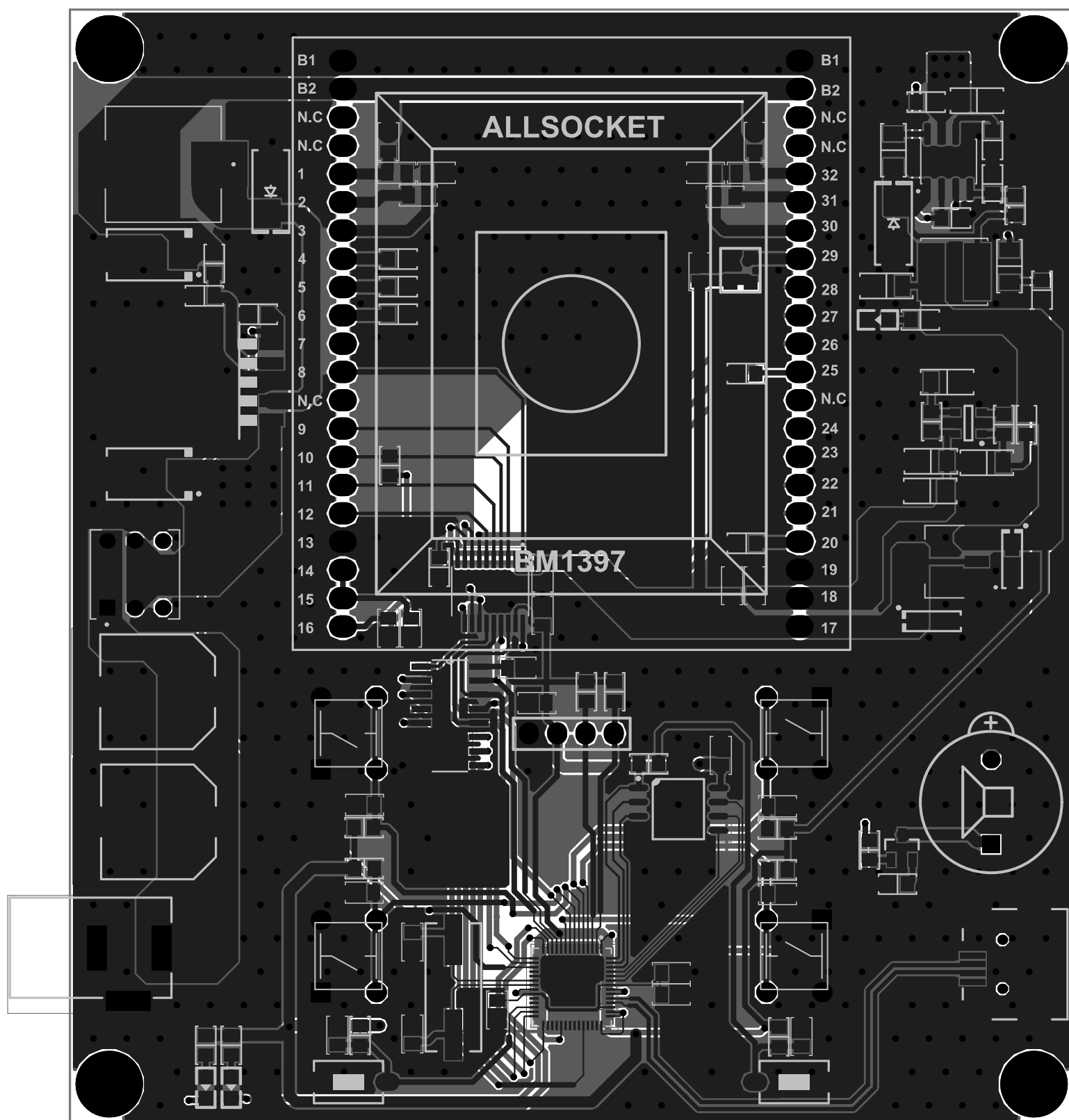


3.3v TO 0.8v



12v TO 1.5v





Comment	Description	Designator	Footprint	LibRef	Quantity
BM1397		BM1	ATSocket	BM1397_0	1
100uF		C1, C2	CAP ALUM 10.3MM	POLARIZED CAP	2
10uF		C3, C4	CAP-SMD-1206	CAP	2
22uF		C5	CAP-SMD-1206	CAP	1
220pF		C6	CAP-SMD-1206	CAP	1
10uF		C7	CAP-TAN-CASE-A	POLARIZED CAP	1
22uF		C8	CAP-TAN-CASE-A	POLARIZED CAP	1
100nF		C9, C10, C11, C12	CAP-SMD-1206	CAP	4
100uF		C13, C14	CAP-TAN-CASE-E	POLARIZED CAP	2
100nF		C15, C16, C17, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C47, C48, C50, C51	CAP_SMD_0805	CAP	22
22pF		C18, C19	CAP_SMD_0805	CAP	2
1uF		C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C49	CAP_SMD_0805	CAP	13
1N5822		D1	m7	1N4007	1
1N4007		D2	m7	1N4007	1
LED		D3, D4, D5	LED_0805_RED	LED	3
Power Jack	DC Power Jack Connector Low Profile with 4 soldering pads	J1	DC-Jack-THT-RA-6.4	DC-JACK	1
MINI_USB		J2	Mini_usb	MINI_USB	1
10uH	3.3uH Semi-Shielded Wirewound Inductor 5A 21mOhm Nonstandard	L1	SRN6045TA	SRN6045TA-3R3Y	1
100uH		L2	Inductor	Inductor	1
25MHz		Q1	XTALL	OSCILLATOR	1
2N2222	NPN General Purpose Amplifier	Q2	SOT-23_H	MMBT2222ALT1G	1
100K		R1	RES-SMD-0805	RES	1
124K		R2	RES-SMD-0805	RES	1
24.9K		R3	RES-SMD-0805	RES	1
200K		R4	RES-SMD-0805	RES	1
40.2K		R5	RES-SMD-0805	RES	1
68.1K		R6	RES-SMD-0805	RES	1
4.99K		R7	RES-SMD-0805	RES	1
10K		R8, R10, R11, R31	RES-SMD-0805	RES	4
0R		R9, R20, R23, R25	RES-SMD-0805	RES	4
330R		R12, R26, R27	RES-SMD-0805	RES	3
1K		R13, R32, R33	RES-SMD-0805	RES	3
4.7K		R14, R15, R16, R17, R18, R19, R24, R28, R29, R30	RES-SMD-0805	RES	10
NF		R21, R22	RES-SMD-0805	RES	2
TL22850A	Pushbutton Switch DPDT Standard Through Hole	S1	SW_TL22850A	TL22850A	1
SW	SWT Tactile Switch	S2, S3	SW_PB_SMD_2PIN_SP ST_6X3X5	SW-PB-2Pin-SMD	2
TACK		SW1, SW2, SW3, SW4	TACK	SW	4
MP1584EN	Buck Switching Regulator IC Positive Adjustable 0.8V 1 Output 3A 8-SOIC 1.0154, 3.90mm Width, Exposed Pad	U	SOIC127P600X170-9N	MP1584EN	1
RP2040TR7	MCU, 32BIT, 133MHZ, QFN-56; Product Range:-; Architecture:ARM Cortex-M0+; No. of Bits:32bit; CPU Speed:133MHz; Program Memory Size:16MB; RAM Memory Size:264KB; No. of Pins:56Pins; MCU Case Style:QFN; No. of I/O s:30I/O s	U1	RP2040-57N	RP2040TR7	1
AMS1117	AMS1117 1A LOW DROPOUT VOLTAGE REGULATOR	U2	AMS1117	AMS1117	1
SGM2036		U3	SOT23-5PIN	SGM2036	1
LM2596-ADJ	SIMPLE SWITCHER* 40V, 3A Low Component Count Step-Down Regulator 5-DDPAK/TO-263 -40 to 125	U4	LM2576	LM2576S-5.0	1
W25q128		U5	WINBOND SOIC-8	W25q128	1
TXB0108PWR	8-Bit Bidirectional Voltage-Level Shifter with Auto Direction Sensing and +/-15-kV ESD Protect	U6	SOP65P640X120-20N	TXB0108PWR	1
OLED		U7	OLED	OLED	1
HEF4051BT.653	4000B Series 3 - 15 V 8-Ch Analog Multiplexer/Demultipli exer - SOIC-16	U8	SOIC127P600X175- 16N	HEF4051BT.653	1
TMB12A05	Integrated Buzzer	U9	BUZZER_TMB12A05	Buzzer_TMB12A05	1
XTAL	Crystal 8MHz ±50ppm (Tol) ±50ppm (Stability) 20pF FUND 400ohm 2-Pin HC-49 Thru-Hole Loose	Y1	XTAL_SMD	XTAL	1