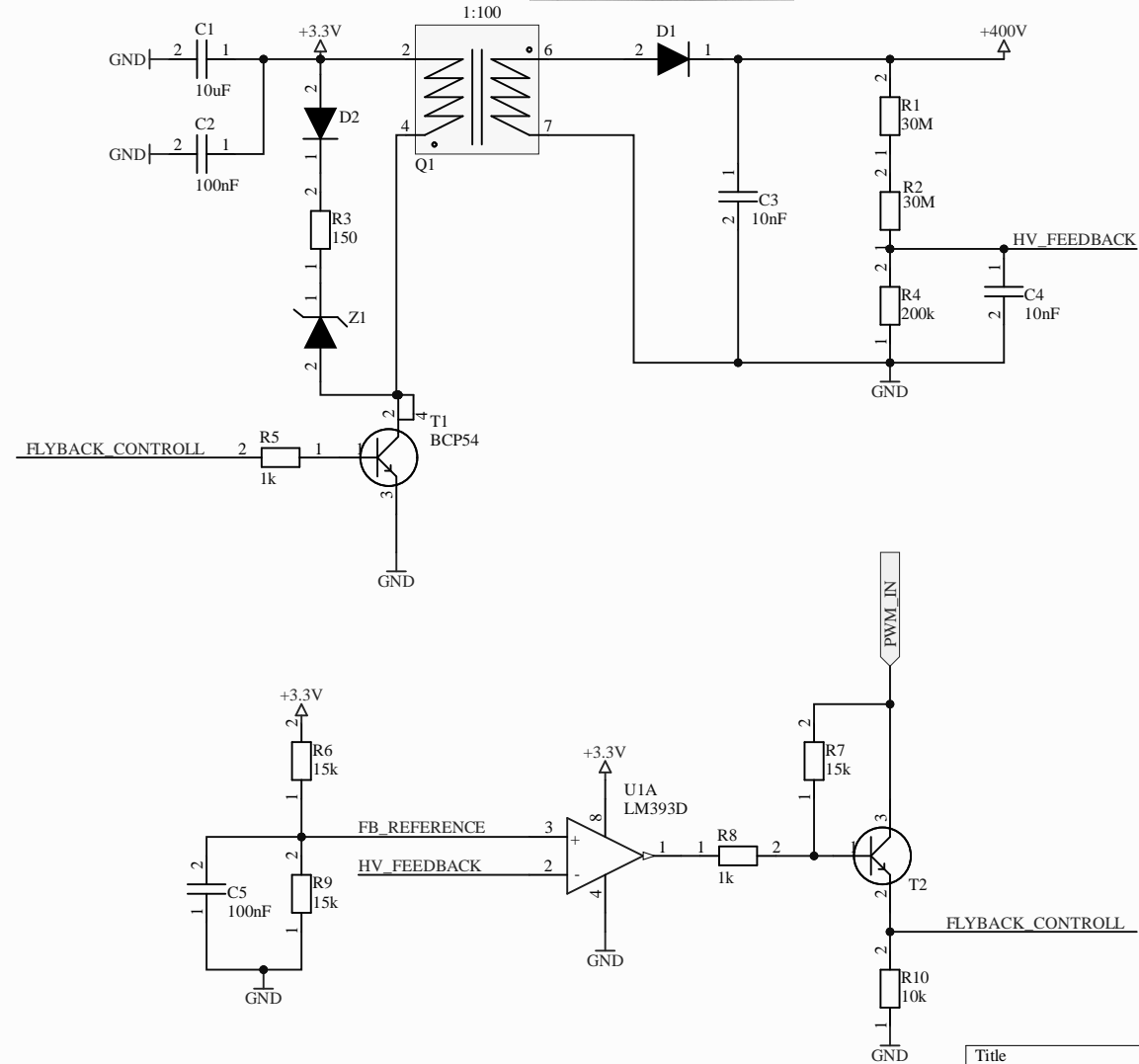


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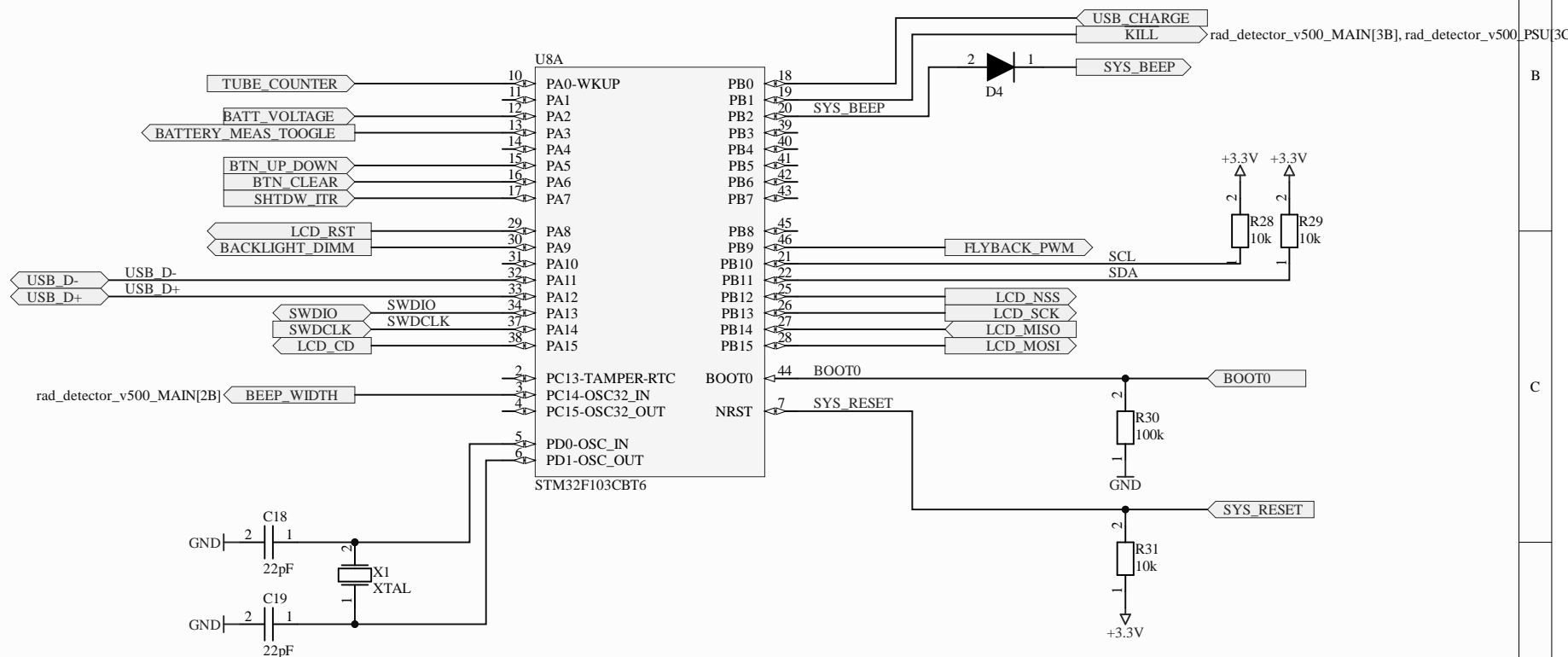
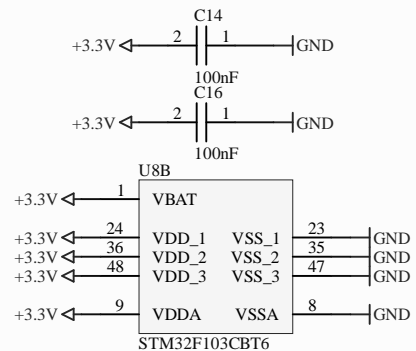
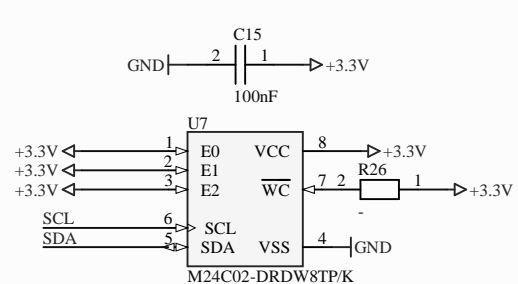
$$U_{ds} = a + U_{ds} \left( \frac{d}{1-d} \right)$$

$$d = \frac{U_{ds}}{a + U_{ds}}$$

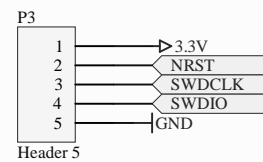
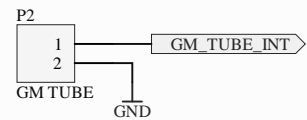
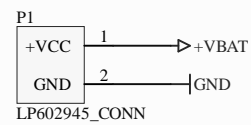
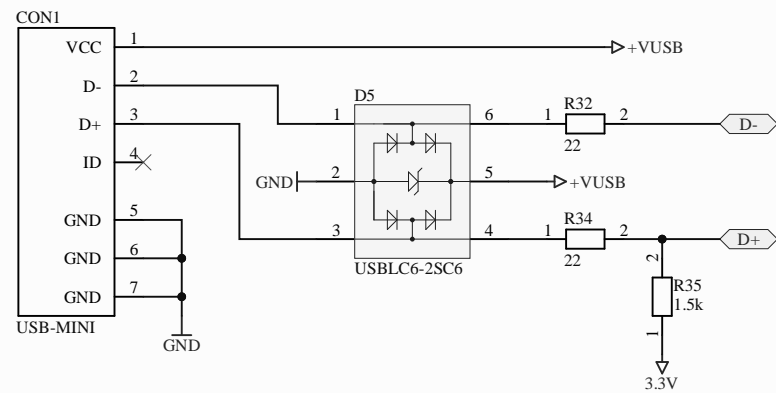


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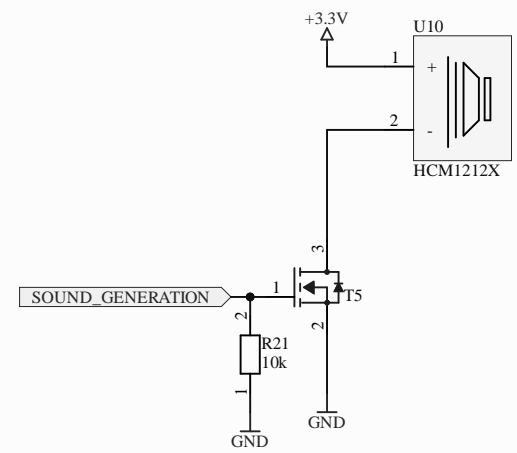
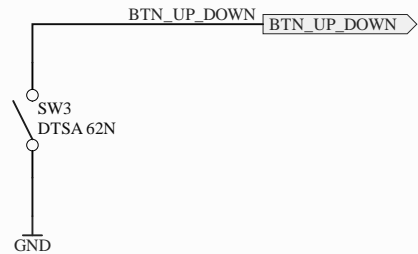
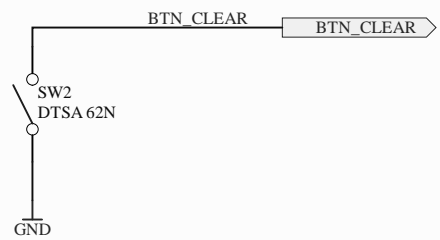
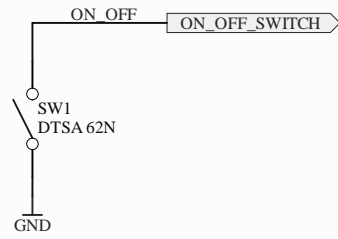
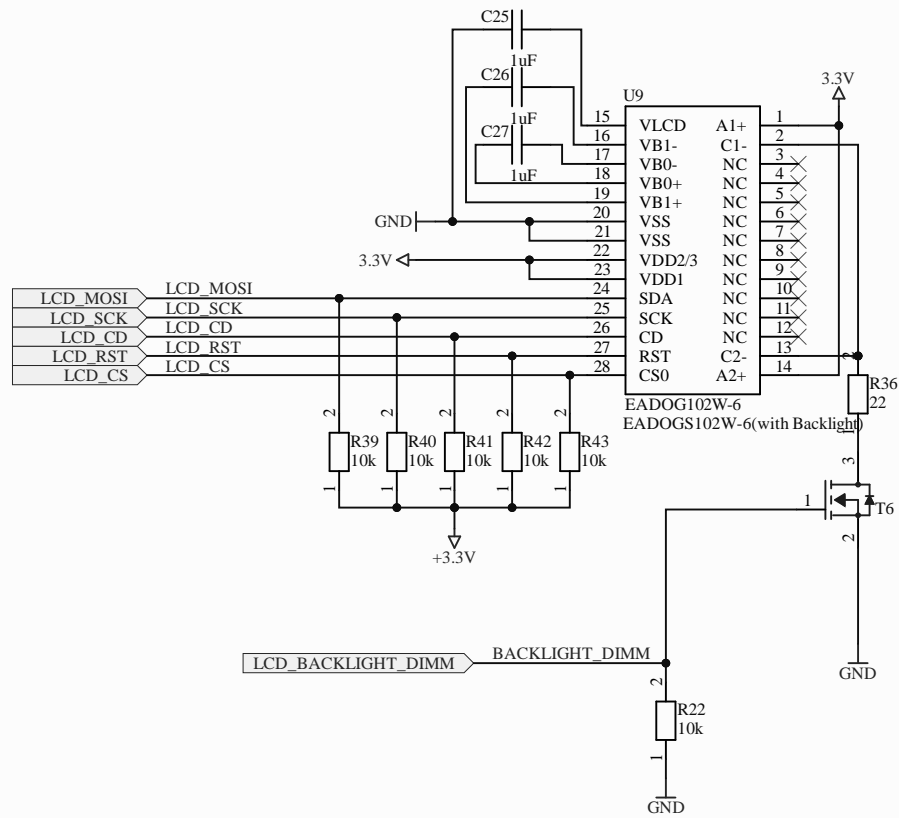




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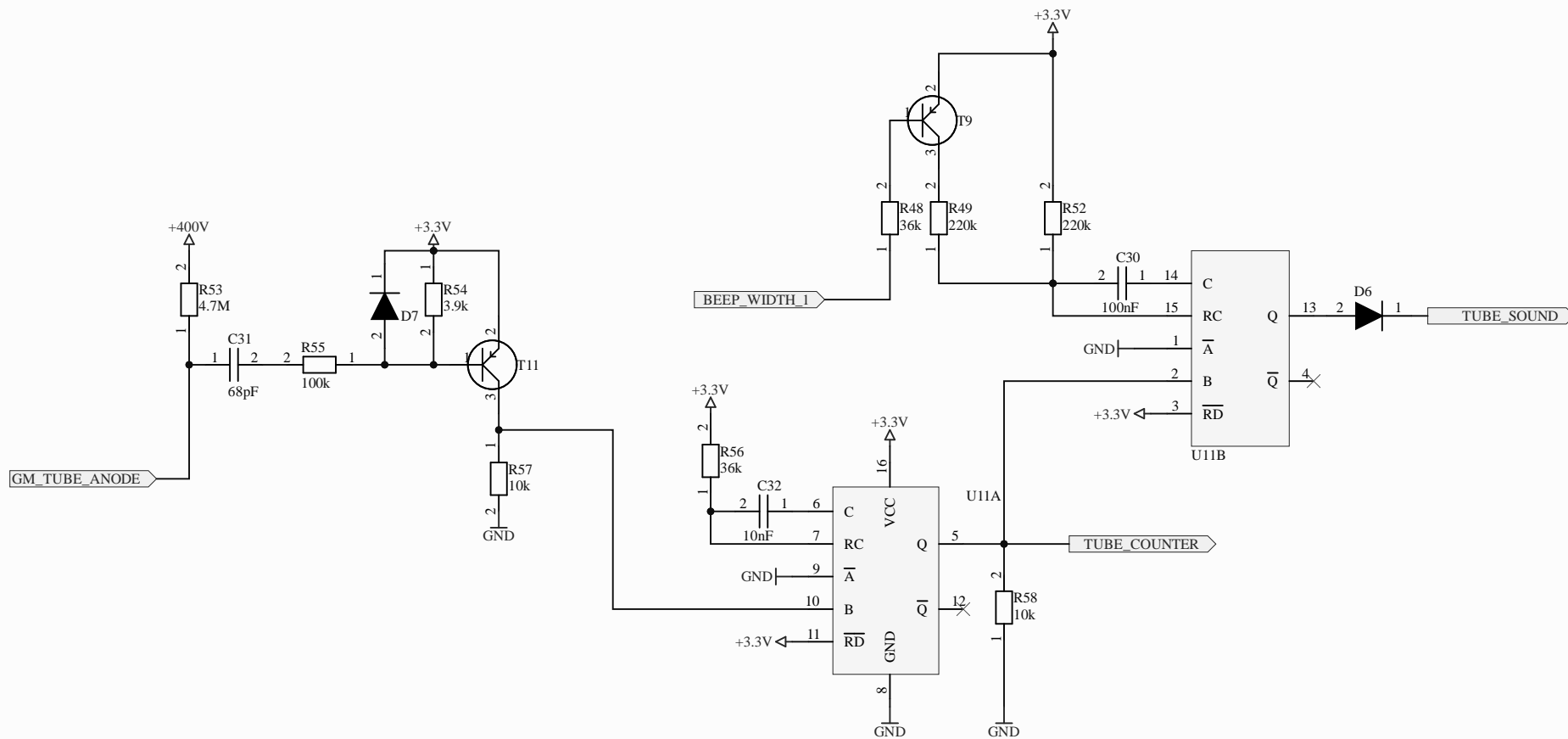
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C

D

D



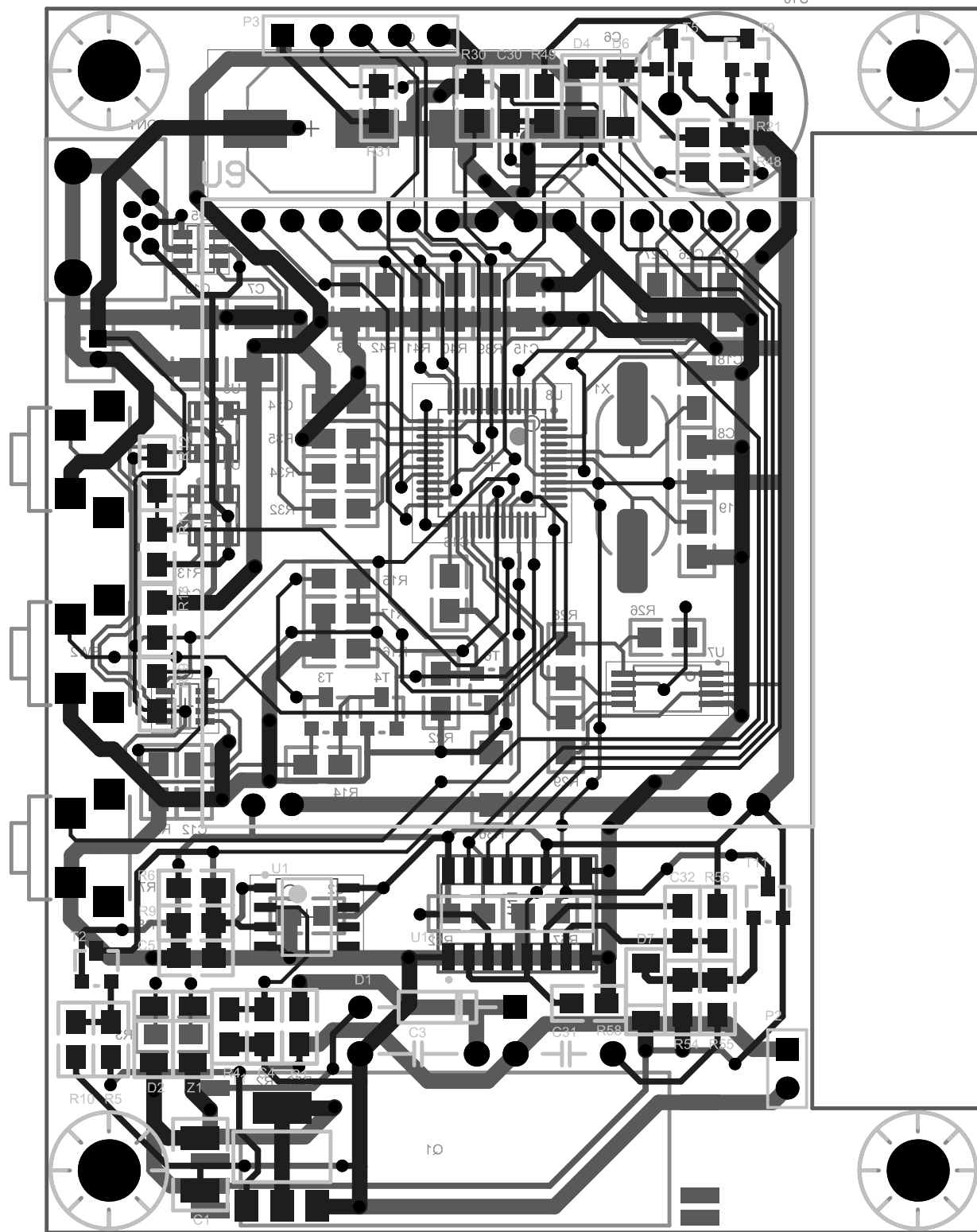
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Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	10uF		C1, C7, C10, C12	4							
	100nF		C2, C5, C8, C11, C14, C15, C16, C30	8							
	10nF		C3, C4, C32	3							
	470uF		C6, C9	2							
	22uF		C18, C19	2							
	1uF		C25, C26, C27	3							
	68pF		C31	1							
	USB-MINI		CON1	1							
	DIODE		D1, D2, D4, DA, D7	5							
	RELE		H1, H2, H3, H4	4							
	1P600M5-CONN		P1	1							
	DARFON, LOGIC, TRANSFORMER		Q1	1							
	30M		R1, R2	2							
	150		R3	1							
	200k		R4	1							
	1k		R5, R8	2							
	15k		R6, R7, R9	3							
	10k		R10, R14, R15, R16, R18, R20, R21, R22, R28, R29, R31, R39, R40, R41, R42, R43, R57, R58	18							
	47k		R11	1							
	91k		R12	1							
	2k		R13	1							
	3.3k		R17	1							
	33k		R19	1							
	100k		R26	1							
			R20, R55	2							
	22		R32, R34, R36	3							
	1.5k		R35	1							
	36k		R48, R56	2							
	220k		R49, R52	2							
	4.7M		R53	1							
	3.9k		R54	1							
	DTSA 62N		SW1, SW2, SW3	3							
	BCP54		T1	1							
	BC149*		T2	1							
	BC159		T9, T11	2							
	MAX304-3.3VMS-TR		U3	1							
	EAAD0G51-62W-6(with Backlight		U9	1							
	HCM1712-K		U10	1							
	74HCT12-1		U11	1							
	XTAL		X1	1							
	DIODE_2-ENER		Z1	1							
	STM32F103C8T6	ARM Cortex-M3 32-bit MCU, 128 KB Flash, 20 KB Internal RAM, 37 I/Os, 48-pin LQFP, -40 to 85 degC, Tray	U8	1							
	M24C02-0R0WB1-P/K	EEPROM Memory IC 2Kb (256 x 8) 12C 400kHz 800m 8-TSSOP	U7	1							
	GM-TUBE	Header, 2-Pin	P2	1							
	Header 5	Header, 5-Pin	P3	1							
	LM393D	IC VOLT COMPARATOR DUAL LP BSOIC	U1	1							
	MCP7383-2T-DAT/OT	Miniature Single-Cell, Fully Integrated Li-Ion, Li-Polymer Charge Management Controller, 4.2V, 5-Pin SOT-23, Industrial Temperature, Tape and Reel	U2	1							
	MWBF170	N MOSFET	T4, T5, T6	3							
	BSS84	P-Channel MOSFET	T3	1							
	LTC2956C-T5B-14TRPBF	Pushbutton On / Off Controller with Automatic Turn-On, 8-pin SOI23 (T5B-8), 0 to 70 degC, Pb-Free, Tape and Reel	U5	1							
	USRLC6-25C6	Very low capacitance ESD protection, 3.5 pF, -40 to 125 degC, 6-pin SOI23, RoHS, Tape and Reel	D5	1							