

## main\_new

Item	Qty	Reference(s)	Value	LibPart	Footprint
1	1	C1	220pF	Device:C	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P2.50mm
2	4	C2, C3, C9, C10	150pF	Device:C	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P2.50mm
3	2	C5, C12	470pF	Device:C	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P2.50mm
4	8	C6, C13, C23, C24, C25, C26, C27, C28	100nF	Device:C	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P2.50mm
5	1	C8	330pF	Device:C	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P2.50mm
6	1	C11	10pF	Device:C	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P2.50mm
7	4	C15, C16, C17, C18	33pF	Device:C	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P2.50mm
8	3	C20, C21, C33	100n	Device:C	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P2.50mm
9	1	C22	10n	Device:C	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P2.50mm
10	1	C29	10uF	Device:C_Polarized	Capacitor_THT:CP_Radial_D5.0mm_P2.50mm
11	1	C36	47u	Device:C	Capacitor_THT:C_Axial_L19.0mm_D9.5mm_P25.00mm_Horizontal
12	1	C37	1u	Device:C	Capacitor_THT:C_Axial_L19.0mm_D9.5mm_P25.00mm_Horizontal
13	4	D1, D2, D4, D5	1N4001	Diode:1N4001	Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal
14	3	FID1, FID2, FID3	Fiducial	Mechanical:Fiducial	Fiducial:Fiducial_0.5mm_Mask1.5mm
15	4	H1, H2, H3, H4	MountingHole_Pad	Mechanical:MountingHole	MountingHole:MountingHole_2.2mm_M2_ISO7380
16	1	J1	Conn_01x01_Male	Connector:Conn_01x01_Male	Connector_JST:JST_XH_B1B-XH-AM_1x01_P2.50mm_Vertical
17	5	J2, J4, J6, J10, J11	Conn_01x02_Male	Connector:Conn_01x02_Male	Connector_JST:JST_XH_B2B-XH-AM_1x02_P2.50mm_Vertical
18	1	J3	Conn_01x06_Male	Connector:Conn_01x06_Male	Connector_JST:JST_XH_B6B-XH-A_1x06_P2.50mm_Vertical
19	1	J5	Conn_01x03_Male	Connector:Conn_01x03_Male	Connector_JST:JST_XH_B3B-XH-A_1x03_P2.50mm_Vertical
20	1	J7	Conn_01x05_Male	Connector:Conn_01x05_Male	Connector_PinHeader_2.54mm:PinHeader_1x05_P2.54mm_Vertical
21	2	J8, J9	Conn_01x01_Male	Connector:Conn_01x01_Male	Connector_Pin:Pin_D0.9mm_L10.0mm_W2.4mm_FlatFork
22	2	L1, L2	1mH	Device:L	Inductor_THT:L_Axial_L9.5mm_D4.0mm_P15.24mm_Horizontal_Fastron_SMCC
23	4	R1, R5, R11, R13	4.7M	Device:R	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
24	4	R2, R6, R17, R20	2.2k	Device:R	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
25	6	R3, R4, R7, R8, R15, R16	100k	Device:R	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
26	4	R12, R14, R18, R19		470 Device:R	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
27	2	U2, U3		4060 OpenThereminV4-rescue:4060	Package_DIP:DIP-16_W7.62mm
28	1	U4	74HC74	74xx:74HC74	Package_DIP:DIP-14_W7.62mm
29	1	U5		4069 4xxx:4069	Package_DIP:DIP-14_W7.62mm
30	1	U6	MCP4921-EP	Analog_DAC:MCP4921-EP	Package_DIP:DIP-8_W7.62mm
31	2	U7, U12	MCP4922-EP	Analog_DAC:MCP4922-EP	Package_DIP:DIP-14_W7.62mm
32	1	U8	MCP6002-xP	Amplifier_Operational:MCP6002-xP	Package_DIP:DIP-8_W7.62mm
33	1	U9	LP2950-3.3_TO92	Regulator_Linear:LP2950-3.3_TO92	Package_TO_SOT_THT:TO-92_Inline
34	1	U11	ATmega328P-P	MCU_Microchip_ATmega:ATmega328P-P	Package_DIP:DIP-28_W7.62mm
35	1	X1	16MHz	Device:Crystal_Small	Crystal:Crystal_HC49-U_Vertical
36	1	X2	7.3721MHz	Device:Crystal_Small	Crystal:Crystal_HC49-U_Vertical