

Quantity	Designator	Value	Footprint
12	C1, C10, C11, C16, C18, C2, C20, C24, C3, C4, C47, C9	100nF	C_0603_1608Metric
7	C12, C13, C14, C48, C5, C6, C7	220nF	C_0603_1608Metric
1	C15	100nF	C_0603_1608Metric
1	C17	10uF	CP_Elec_5x5.3
6	C19, C35, C38, C39, C40, C41	100nF	C_0603_1608Metric
1	C21	47uF	CP_Elec_5x5.3
2	C22, C25	1uF	C_0603_1608Metric
2	C23, C26	12pF	C_0603_1608Metric
2	C27, C28	20pF	C_0603_1608Metric
3	C29, C31, C33	1uF	C_0603_1608Metric
7	C30, C36, C42, C43, C44, C45, C46	100nF	C_0603_1608Metric
2	C32, C34	2.2uF	C_0603_1608Metric
1	C37	47uF	CP_Elec_5x5.4
1	C8	470pF	C_0603_1608Metric
8	D1, D10, D2, D3, D4, D7, D8, D9	LED	LED_0603_1608Metric
4	D11, D12, D5, D6	1N4148WS	D_SOD-323_HandSoldering
6	D13, D16, D25, D26, D31, D32	1N5819W	D_SOD-123
1	D14	SS14	D_SMA
1	D15	SMBJ40A	D_SMA
11	D17, D18, D19, D20, D21, D22, D23, D24, D27, D28, D30	BAT54S	SOT-23
1	D29	1N4148W	D_SOD-123
1	F1	0.5A	Fuse_1206_3216Metric
1	F2	1206	Fuse_1206_3216Metric
1	J1	Conn_02x02_Top_Bottom	Molex_Micro-Fit_3.0_43045-0600_2x03_P3.00mm_Horizontal
1	J2	STLink	PinHeader_1x04_P2.54mm_Vertical
1	J3	USB_C_Receptacle_USB2.0	USB_C_Receptacle_GCT_USB4105-xx-A_16P_TopMnt_Horizontal
1	J4	Conn_02x12_Top_Bottom	Molex_Micro-Fit_3.0_43045-2400_2x12_P3.00mm_Horizontal
1	J5	MSD-1-A	CUI_MSD-1-A
3	J6, J7, J8	Conn_01x02	PinHeader_1x02_P2.54mm_Vertical
1	JP1	Ignition Voltage	SolderJumper-3_P1.3mm_Open_RoundedPad1.0x1.5mm
1	JP2	CANH/Spare Input 1	SolderJumper-3_P1.3mm_Open_RoundedPad1.0x1.5mm
1	JP3	CANL/MAIN-RELAY	SolderJumper-3_P1.3mm_Open_RoundedPad1.0x1.5mm
3	LED1, LED2, LED3	RED	LED_0603_1608Metric
5	Q1, Q2, Q3, Q4, Q6	Q_NMOS_GDS	TO-252-3_TabPin2
5	Q10, Q5, Q7, Q8, Q9	AO3400A	SOT-23
9	R1, R15, R16, R19, R2, R20, R3, R4, R43	100k	R_0603_1608Metric
4	R10, R23, R24, R9	2.4k	R_0603_1608Metric
4	R11, R12, R25, R26	470r	R_0603_1608Metric
9	R13, R28, R44, R65, R66, R71, R72, R73, R74	470	R_0603_1608Metric
9	R14, R67, R68, R69, R70, R75, R76, R77, R78	910	R_0603_1608Metric
14	R17, R18, R21, R22, R29, R37, R41, R42, R47, R49, R5, R6, R7, R8	1k	R_0603_1608Metric
2	R27, R64	10K	R_0603_1608Metric
1	R30	3.9k	R_0603_1608Metric
8	R31, R32, R34, R38, R39, R40, R48, R92	470R	R_0603_1608Metric
1	R33	10k	R_0603_1608Metric
3	R35, R36, R91	2.49k	R_0603_1608Metric
8	R45, R59, R62, R63, R84, R85, R90, R94	10k	R_0603_1608Metric
5	R46, R60, R61, R89, R93	100R	R_0603_1608Metric
3	R50, R51, R57	220R	R_0603_1608Metric
4	R52, R53, R54, R55	15R	R_2512_6332Metric
1	R56	2k7	R_0603_1608Metric
1	R58	1M	R_0603_1608Metric
2	R79, R80	5.1K	R_0603_1608Metric
2	R81, R82	22R	R_0603_1608Metric
1	R83	4.7K	R_0603_1608Metric
1	R86	2k7	R_0603_1608Metric
2	R87, R88	470r	R_0603_1608Metric
2	SW1, SW2	SW_Push	SW_SPST_CK_RS282G05A3
1	U1	STM32F407VGTx	LQFP-100_14x14mm_P0.5mm
2	U2, U4	TC4424AVOA	SOIC127P599X175-8N
1	U3	AMS1117-3.3	SOT-223-3_TabPin2
2	U5, U6	MCP6004	SOIC127P600X175-14N
1	U7	MCP2551-I-SN	SOIC-8_3.9x4.9mm_P1.27mm
1	U8	LM2940S-5.0	TO-263-3_TabPin2
1	Y1	8Mhz	Crystal_SMD_5032-2Pin_5.0x3.2mm
1	Y2	32.768KHz	Crystal_SMD_3215-2Pin_3.2x1.5mm