

Reference	Value	Footprint	Qty
C1,C2,C3,C4,C9,C10,C11,C15,C16,C18,C19,C20,C24,C25	100nF	Capacitor_SMD:C_0603_1608Metric	27
C5,C6,C7,C12,C13,C14,C50,C52	220nF	Capacitor_SMD:C_0603_1608Metric	8
C8	470pF	Capacitor_SMD:C_0603_1608Metric	1
C17	47uF	Capacitor_SMD:CP_Elec_8x6.5	1
C21	47uF	Capacitor_SMD:CP_Elec_5x5.3	1
C22,C25,C29,C31,C33,C48	1uF	Capacitor_SMD:C_0603_1608Metric	6
C23,C26	12pF	Capacitor_SMD:C_0603_1608Metric	2
C27,C28	20pF	Capacitor_SMD:C_0603_1608Metric	2
C32,C34,C53	2.2uF	Capacitor_SMD:C_0603_1608Metric	3
C37	47uF	Capacitor_SMD:CP_Elec_5x5.4	1
C43	10uF	Capacitor_SMD:C_0603_1608Metric	1
C54	22nF	Capacitor_SMD:C_0603_1608Metric	1
D1,D2,D3,D4,D7,D8,D9,D10,D31,D33,D35,D36	LED	LED_SMD:LED_0603_1608Metric	12
D5,D6,D11,D12,D32,D34	1N4148WT	Diode_SMD:D_0603_1608Metric	6
D13,D16,D25,D26,D29,D30,D40	1N5819W	Diode_SMD:D_SOD-123	7
D14	SS16	Diode_SMD:D_SMA	1
D15	D_TVS	Diode_SMD:D_SMA	1
D17,D18,D19,D20,D21,D22,D23,D24,D27,D28,D37,D38,I	BAT54S	Package_TO_SOT_SMD:SOT-23	13
F1	0.5A	Fuse:Fuse_1206_3216Metric	1
F2	0.5A	Fuse:Fuse_1206_3216Metric	1
J2	STLink	Connector_PinHeader_2.54mm:PinHeader_1x04_P2.54mm_Vertical	1
J3	USB_C_Receptacle_USB2.0	Connector_USB:USB_C_Receptacle_GCT_USB4105-xx-A_16P_TopMnt_Horizontal	1
J5	MSD-1-A	MSD_1_A:CUI_MSD-1-A	1
J6,J7	Conn_01x02	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	2
J9	Yamaha 48p	S48BZROK2AR	1
JP1	Ignition Voltage	Jumper:SoldjerJumper-3_P1.3mm_Open_RoundedPad1.0x1.5mm	1
JP2,JP3	HALL_VR	Jumper:SoldjerJumper-3_P1.3mm_Open_RoundedPad1.0x1.5mm	2
JP4,JP5	PULLUP	Jumper:SoldjerJumper-2_P1.3mm_Open_RoundedPad1.0x1.5mm	2
LED1,LED2,LED3	RED	LED_SMD:LED_0603_1608Metric	3
P1	DRV8825	shield_footprint:DRV8825	1
P2	Dual VR C	Package_DIP:DIP-8_W7.62mm_Socket	1
Q1,Q2,Q3,Q4,Q6,Q10,Q11,Q12	BSP78/NCV8405A/NCV8406A	Package_TO_SOT_SMD:SOT-223-3_TabPin2	8
Q5,Q7,Q8,Q9,Q13	AO3400A	Package_TO_SOT_SMD:SOT-23	5
Q14	BC817	Package_TO_SOT_SMD:SOT-23	1
R1,R2,R15,R16,R43,R91,R93,R96	100k	Resistor_SMD:R_0603_1608Metric	8
R3,R4,R19,R20,R27,R33,R45,R59,R62,R63,R64,R84,R85,F	10K	Resistor_SMD:R_0603_1608Metric	19
R5,R6,R17,R18,R29,R37,R41,R42,R47,R49,R92,R94,R97,F	1k	Resistor_SMD:R_0603_1608Metric	14
R7,R8,R21,R22,R101,R102	0R	Resistor_SMD:R_0603_1608Metric	6
R9,R10,R23,R24,R95,R98	2.4k	Resistor_SMD:R_0603_1608Metric	6
R11,R12,R13,R25,R26,R28,R31,R32,R34,R38,R39,R40,R44	470R	Resistor_SMD:R_0603_1608Metric	26
R14,R67,R68,R69,R70,R75,R76,R77,R78	910R	Resistor_SMD:R_0603_1608Metric	9
R30	3.9k	Resistor_SMD:R_0603_1608Metric	1
R35,R36	2.49k	Resistor_SMD:R_0603_1608Metric	2
R46,R60,R61,R89,R112	100R	Resistor_SMD:R_0603_1608Metric	5
R50,R51,R57	220R	Resistor_SMD:R_0603_1608Metric	3
R52,R53,R54,R55,R105,R106	15R 2W	Resistor_SMD:R_2512_6332Metric	6
R56,R86,R108	2k7	Resistor_SMD:R_0603_1608Metric	3
R58	1M	Resistor_SMD:R_0603_1608Metric	1
R79,R80	5.1K	Resistor_SMD:R_0603_1608Metric	2
R81,R82,R111	22R	Resistor_SMD:R_0603_1608Metric	3
R83	4.7K	Resistor_SMD:R_0603_1608Metric	1
R114,R116	68K	Resistor_SMD:R_0603_1608Metric	2
R115	5.1R	Resistor_SMD:R_0603_1608Metric	1
SW1,SW2	SW_Push	Button_Switch_SMD:SW_SPST_CK_RS282G05A3	2
TP1,TP2	TestPoint	TestPoint:TestPoint_Pad_D1.0mm	2
U1	STM32F407VGTx	Package_QFP:LQFP-100_14x14mm_P0.5mm	1
U2,U4,U10	TC4424A	TC4424AVOA:SOIC127P599X175-8N	3
U3	AMS1117-3.3	Package_TO_SOT_SMD:SOT-223-3_TabPin2	1
U5,U6	MCP6004	MCP6004T_I_SL:SOIC127P600X175-14N	2
U7	MCP2551-I-SN	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	1
U8	LM2940S-5.0	Package_TO_SOT_SMD:TO-263-3_TabPin2	1
U9	USBLC6-2SC6	Package_TO_SOT_SMD:SOT-23-6	1
Y1	8Mhz	Crystal:Crystal_SMD_5032-2Pin_5.0x3.2mm	1
Y2	32.768KHz	Crystal:Crystal_SMD_3215-2Pin_3.2x1.5mm	1