



Comment	Description	Designator	Footprint	LibRef	Quantity
BTN7971		BTS1, BTS2, BTS3, BTS4, BTS5, BTS6, BTS7, BTS8	BTS7971B	BTS7960	8
BUZZER	buzzer	BUZZER	BUZZER_DIP	BUZZER	1
10uF/1210/50V	Capacitor	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C18, C19, C20, C21, C22, C23, C24, C25	1210	CAP	24
100nF/0805/50V	Capacitor	C17, C26, C35, C36, C41, C46	0805C	CAP	6
100nF	Capacitor	C44, C52	0805C	CAP	2
Cap	Capacitor	C47, C48, C49, C50, C53	0805C	Cap	5
Header 2	Header, 2-Pin	CAN1, CAN2	H2	Header 2	2
STM32Core/100Pin		Core1	Core	Core	1
470uF/50V	Polarized Capacitor (Radial)	CT1, CT3	LV_Cap8*8mm	Cap Pol1	2
330uF	Polarized Capacitor (Radial)	CT2	LV_Cap8*8mm	Cap Pol1	1
180uF	Polarized Capacitor (Radial)	CT4	LV_Cap8*8mm	Cap Pol1	1
10uF/16V	Polarized Capacitor (Radial)	CT5, CT7	0805C	Cap Pol1	2
ZMM5V1	Zener Diode	D1	ZMM2V4-ZMM75	D Zener	1
SS14	1 Amp General Purpose Rectifier	D2, D3	SS12-SS100/SMA	Diode	2
B0505S-1W		DC1, DC2, DC3	B_S-1W	B0505S-1W	3
Header 5X2	Header, 5-Pin, Dual row	ENC1, ENC2, ENC3, ENC4	ENC_Con	Header 5X2	4
Header 6	Header, 6-Pin	Encoder1, Encoder2	H6	Header 6	2
FUSE	Fuse	FU1	UF500	FUSE	1
Header 5	Header, 5-Pin	Gyro, P5	H5	Header 5	2
Header 2	Header, 2-Pin	H1, H2, MOTOR1, MOTOR2, MOTOR3, MOTOR4	7555	Header 2	6
Inductor	Inductor	L1, L2	INDC2_100UH	Inductor	2
Inductor	Inductor	L12	1210	Inductor	1
LED2	Typical RED, GREEN, YELLOW, AMBER GaAs LED	LED1, LED2, LED3, LED4	LED0805	LED2	4
red	LED	LED5	LED0805	LED	1
IRF331D	场效应管	M1	TO263	IRF3808S	1
Optoisolator1	4-Pin Phototransistor Optocoupler	OP1, OP2, OP3	G3VM-61D1	Optoisolator1	3
HCPL-2631		OP4, OP5, OP8, OP9	SO-8	HCPL-2631/HCPL-0631	4
head21*2		P6, P7	head21*2	head21*2	2
PNP/8550	NPN Bipolar Transistor	Q1	SOT-23_L	NPN	1
10K	Resistor	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R19, R20, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R55, R56, R66, R98, R99, R100, R101, R105, R107	0805R	RES, res1, res1, res1, res1, res1, Res1, Res1	43
1K	Resistor	R17, R18, R21, R22, R40, R41, R42, R43, R71, R73, R77, R80, R82, R108, R109, R110, R111	0805R	Res1	17
1.5K/1%	Resistor	R39	0805R	RES	1
10K/1%	Resistor	R44	0805R	RES	1
330	Resistor	R45, R46, R57, R67, R68, R89, R90	0805R	res1	7
470	Resistor	R78, R79, R102, R103	0805R	res1	4
100	Resistor	R81, R86, R88, R92, R94	0805R	RES, res1, res1, res1, res1	5
50K	Resistor	R91, R106	0805R	res1	2
120	Resistor	R93, R112	0805R	res1	2
SW DIP-4	DIP Switch, 4 Position, SPST	S1	BOMA	SW DIP-4	1
LM2596-12	Easy Switcher 3.0A Step-Down Voltage Regulator	U1	LM2596	LM2576D2T-ADJ	1
LM2596-5	Easy Switcher 3.0A Step-Down Voltage Regulator	U6	LM2596	LM2576D2T-ADJ	1
AMS1117-3.3	Voltage Regulator	U7	SOT223	Volt Reg	1
SN65HVD230		U8, U10	SO8M	SN65HVD230	2
MX232		U9	SOP16 MAX232	SP3232E	1
Header 4	Header, 4-Pin	USART2, USART3, USART4	H4	Header 4	3