





Comment	Description	Designator	Footprint	LibRef	Quantity
Cap Tantalum	Capacitor	C1, C6	CAP3528	Cap2	2
0.1uF/100V		C2, C4, C5, C8, C11, C12, C20, C23, C24	cc 0603	CAPC-SM1206	9
10uF/50V		C3, C9, C10	CC1206	CAPC-SM1206	3
330uF/50V		C7, C13	470uF/50V	CAP 330U/10V/2917	2
0.1uF/50V		C14, C15, C16, C17, C18	cc 0603	CAPC-SM0402	5
220uF/16V		C19	220uF/16V	CAP 330U/10V/2917	1
10pF		C21, C22	cc 0603	CAPC-SM1206	2
1uF/100V		C25	cc 0603	CAPC-SM1206	1
Pad		CD1, CD2, CD3, CD4	PAD	TP	4
B560C-13-F	DIODE SCHOTTKY 60V 5A SMC	D1	SMC	B560C-13-F	1
5.0SMDJ36A		D2	5.0SMDJ36A	DIODE BI-DIR TRIG	1
SS26	Schottky Diode	D3	DO-214AA	D Schottky	1
SMAJ15CA	Transient Voltage Suppressor Diode (Bi-Directional)	D4, D7	DIOM5226X262N	Diode TVS Bi-Directional_1	2
RED		D5	LED_0603	LED	1
GREEN		D6	LED_0603	LED	1
CB 12V	Connector	J1	HEADER 4	CON4	1
CB 5V	Connector	J2	HEADER 4	CON4	1
PW	Connector 2	JP1	HEADER 2_1	CON2	1
LED 12V	Connector 2	JP2	HEADER 2_1	CON2	1
Button	Connector 2	JP3	HEADER 2_1	CON2	1
68uH	Inductor	L1	Inductor Power	Inductor	1
20MHz	Oscillator 4 pins 1=VC 2=GND 3=OUT 4=+Vs	OSC1	8Mhz Fox	OSC_20MHZ_IQD_LF TVX0022175	1
BT	Header, 6-Pin	P1	BLT 4.0	BT	1
Debug	Header, 5-Pin	P2	JP5	Header 5	1
2SC1815	NPN 600mW, ECB	Q1	SOT23B	C1815	1
3.3K/1%		R1	Res 0603	RES-SM0402	1
100R/1%		R2, R3	Res 0603	RES-SM0402	2
1K/1%		R4, R5, R6, R7, R8, R9, R10, R20	Res 0603	RES-SM0402	8
47K/1%		R11	Res 0603	RES-SM0402	1
0R/1%		R12, R14	Res 0603	RES-SM0402	2
10K/1%		R13, R15, R18, R21	Res 0603	RES-SM0402	4
4.7K/1%		R16	Res 0603	RES-SM0402	1
47K/1%/NC		R17	Res 0603	RES-SM0402	1
10K	Resistor	R19	RES 0603	Res2	1
APM4435		T1	D008_L	SPP4435	1
LM2596 - 5V		U1	LM2596-ADJ	LM2596	1
AMS1117-33		U2	SOT223-4N	TLV117LV33	1
MAX232		U3	MAX3232	MAX3232E	1
STM32G030F6P6	ARM MICROCONTROLLERS MCU	U4	FP-TSSOP20-YA-MFG	de2f7cf56ecdc1f1ec6ab3e49dbf5e6	1