

Comment	Description	Designator	Footprint	LibRef	Quantity
1000uF	Polar Capacitor	C1	cap 01	CAP_Polar	1
100nF	Bipolar Capacitor	C2, C4, C7, C17, C18	CAPC3216L (1206)	CAP_Bipolar	5
4.7uF	Polar Capacitor	C3	cap 01	CAP_Polar	1
10nF	Bipolar Capacitor	C5	CAPC2012N (0805)	CAP_Bipolar	1
1uF	Bipolar Capacitor	C6	CAPC3216L (1206)	CAP_Bipolar	1
1uF	Bipolar Capacitor	C8	Cap - 100nF	CAP_Bipolar	1
100nF	Bipolar Capacitor	C9, C10, C11, C12, C19	CAPC3216M (1206)	CAP_Bipolar	5
20pF	Bipolar Capacitor	C13, C14	CAPC1608M (0603)	CAP_Bipolar	2
1nF	Bipolar Capacitor	C15	CAPC3216M (1206)	CAP_Bipolar	1
1uF	Bipolar Capacitor	C16	CAPC3216M (1206)	CAP_Bipolar	1
100nF	Bipolar Capacitor	C20, C21	CAPC2012N (0805)	CAP_Bipolar	2
3.3nF	Bipolar Capacitor	C22	Cap - 100nF	Cap-Bipolar	1
SM6TEV8A	TVS DIODE 5.8VWM 13.4VC SMD	D1	STMicroelectronics_SM6TEV8A_0	SM6TEV8A	1
RUEF160	Littlefuse RUEF160—PTC Resettable Fuse 1.6A(hold) 3.2A(trip) 30V 100A 0.9W 8s 0.03Ohm Radial 8.9 X 3 X 15.2mm Bag	F1	Littlefuse_RUEF160	RUEF160	1
IDC Box Header 2x7		J1	FT_IDC9H2x7	IDC Box Header 2x7	1
82B-XH-A, LF, SN		J2, J3	JST_0_MFG	82B-XH-A, LF, SN	2
5-1634503-1	Female Header, Pitch 3.13 mm, Height 13.7 mm, Tail Length 4.5 mm, -55 to 85 degC, RoHS, Bulk	J4	TECO-5-1634503-1_V	5-1634503-1	1
742792645 (Ferrite Bead)	SMD EMI Suppression Ferrite Bead WE-CBF, ZL = 470 Ohm	L1	SMD-0603	742792645	1
Green	[NoValue], LED	LED1_Power, LED2_5volt, LED3_3.3volt, LED4_LED3	LED SMD 1206	LED	4
HDR_3X2	Header, 3-Pin, Dual row	P1	MISC_HDR_2X3	HDR_3X2	1
MaleHDR_1X04	Male Header 1X04	P2	MHDR1X04-254P	MHDR_1X04	1
USB Connector	USB MICRO-B Type Connector	P3	USB_AB_BM_SHS	USB AB MICRO CONNECTOR	1
MHDR_1X02	Male Header 1X02	P4	MHDR1X02-254P	MHDR_1X02	1
2N3904TF		Q1	ON_Semiconductor_13 SMD_MFG	2N3904TF	1
1K	RES 1206	R1	RESC4817X04N	RES 1206 0.25W	1
560	RES 1206	R2, R3	RESC4817X04N	RES 1206 0.25W	2
330K	Resistor (R4(R2_Timer)		Res-(1/2)	RES	1
100K	Resistor (R5(R1_Timer)		Res-(1/2)	RES	1
1K	Resistor	R6	RESC3216X60L (1206)	RES	1
2.2K	Resistor	R7	RESC3216X60L (1206)	RES	1
10K	Resistor	R8	RESC3216X60L (1206)	RES	1
100K	Resistor	R9, R10	RESC3216X60M (1206)	RES	2
560	Resistor	R11	RESC3216X60M (1206)	RES	1
20	Resistor	R12, R13	RESC3216X60M (1206)	RES	2
4.7K	Resistor	R14	RESC3216X60M (1206)	RES	1
330	Resistor	R15	RESC3216X60M (1206)	RES	1
10K	Resistor	R16, R17	RESC3216X60M (1206)	RES	2
120	Resistor	R18	RESC3216X60M (1206)	RES	1
20K	Resistor	R19, R20	RESC3216X60M (1206)	RES	2
Switch PB	Push Button Switch	S1	Switch - Push to On	Switch PB	1
Input_Voltage	2 Pitch: 5 mm Color: green Contact surface: Tin Assembly	T1	MSTBV 2.5/2-G-5	CON_Phoenix_MSTBV_02	1
L7805CV	Linear Voltage Regulator IC Positive FIXED	U1	TO-220 AB	L7805CV-Linear Voltage Regulator IC Positive 1 Output 5V 1.5A TO-220AB	1
AMS1117-3.3	800mA LOW DROPOUT VOLTAGE REGULATOR	U2	SOT223-4N	IC_AMS1117-3.3	1
NE555P	Precision Timer	U3	P008	NE555P	1
LMV358M	General Purpose, Low Voltage, Rail-to-Rail Output Operational Amplifiers, 8-pin Narrow SOIC	U4, U5	M08A_M	LMV358M	2
STM32F101C8T6	STM32 ARM-based 32-bit MCU with 64 Kbytes Flash, 48-pin LQFP, Industrial Temperature	U6	LQFP48_L	STM32F101C8T6	1
MAX485ECSA+		U7	Maxim_Integrated_SR_6_MFG	MAX485ECSA+	1
5k	Variable Resistor	VR1	Pot 00	Resistor Variable	1
8 MHz	XTAL Crystal	Y1	Crystal SMD	XTAL_Crystal	1