

Comment	Description	Designator	Footprint	Quantity
USB Connector	USB MICRO-B Type Connector	P3	USB_AB_BM_SH5	1
Switch PB	Push Button Switch	S1	Switch - Push to On	1
STM32F101C8T6	STM32 ARM-based 32-bit MCU with 64 Kbytes Flash, 48-pin LQFP, Industrial Temperature	U6	LQFP48_L	1
SM6TV8A	TVS DIODE 5.8VWM 13.4VC SMB	D1	STMicroelectronics_SM6TV8A_0	1
RUEF160	Littlefuse RUEF160---PTC Resettable Fuse 1.6A(Ind) 3.2A(Trig) 30V 1.00A 0.9W 8s 0.030mm Radial 8.9 X 3 X 15.2mm Bag	F1	Littlefuse_RUEF160	1
NE555P	Precision Timer	U3	P008	1
MHDR_1X02	Male Header 1X02	P4	MHDR1X02-254P	1
MAX485ECSA+		U7	Maxim_Integrated_SB-5_MFG	1
MaleHDR_1X04	Male Header 1X04	P2	MHDR1X04-254P	1
LMV358M	General Purpose, Low Voltage, Rail-to-Rail Output Operational Amplifiers, 8-pin Narrow SOIC	U4, U5	MO8A_M	2
LT805CV	Linear Voltage Regulator IC Positive FIXED	U1	TO-220 AB	1
Input_Voltage	2 Pitch: 5 mm Color: green Contact surface: Tin Assembly	T1	MSTBV 2,5/2 G-5	1
IDC Box Header 2x7		J1	FT_IDCBH2x7	1
HDR_3X2	Header, 3-Pin, Dual row	P1	MISC_HDR_2X3	1
Green	[NoValue], LED	LED1_Power, LED2_5Vq, LED3_3.3Vq, LED4_GPO	LED SMD 1206	4
B2B-XH-A_LF_SN		J2, J3	JST_0_MFG	2
AMS1117-3.3	800mA LOW DROPOUT VOLTAGE REGULATOR	U2	SOT223-4N	1
742792645 (Ferrite Bead)	SMD EMI Suppression Ferrite Bead WE-CBF, Z/L1 = 470 Ohm	L1	SMD-0603	1
1000uF	Polar Capacitor	C1	cap 01	1
560	RES 1206	R2, R3	RESC4817X04N	2
560	Resistor	R11	RESC3216X60M (1206)	1
330K	Resistor	R4(R2_Timer)	Res-(1/2)	1
330	Resistor	R15	RESC3216X60M (1206)	1
120	Resistor	R18	RESC3216X60M (1206)	1
100nF	Bipolar Capacitor	C2, C4, C7, C17, C18	CAPC3216L (1206)	5
100nF	Bipolar Capacitor	C9, C10, C11, C12, C19	CAPC3216M (1206)	5
100nF	Bipolar Capacitor	C20, C21	CAPC2012N (0805)	2
100K	Resistor	R5(R1_Timer)	Res-(1/2)	1
100K	Resistor	R9, R10	RESC3216X60M (1206)	2
20pF	Bipolar Capacitor	C13, C14	CAPC1608M (0603)	2
20K	Resistor	R19, R20	RESC3216X60M (1206)	2
20	Resistor	R12, R13	RESC3216X60M (1206)	2
10nF	Bipolar Capacitor	C5	CAPC2012N (0805)	1
10K	Resistor	R8	RESC3216X60L (1206)	1
10K	Resistor	R16, R17	RESC3216X60M (1206)	2
8 MHz	XTAL Crystal	Y1	Crystal SMD	1
5K	Variable Resistor	VR1	Pot 00	1
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	1
4.7uF	Polar Capacitor	C3	cap 01	1
4.7K	Resistor	R14	RESC3216X60M (1206)	1
3.3nF	Bipolar Capacitor	C22	Cap - 100nF	1
2.2K	Resistor	R7	RESC3216X60L (1206)	1
2N3904TF		Q1	ON_Semiconductor_13 SAR_MFG	1
1uF	Bipolar Capacitor	C6	CAPC3216L (1206)	1
1uF	Bipolar Capacitor	C8	Cap - 100nF	1
1uF	Bipolar Capacitor	C16	CAPC3216M (1206)	1
1nF	Bipolar Capacitor	C15	CAPC3216M (1206)	1
1K	RES 1206	R1	RESC4817X04N	1
1K	Resistor	R6	RESC3216X60L (1206)	1