Comment		Designator	Footprint	Quantity
USB Connector	USB MICRO-B Type Connector	P3	USB_AB_BM_SHS	
Switch PB	Push Button Switch	S1	Switch - Push to On	
SMICHTE	T CAT DOLLOT SMICT		Januar Tuarto Ori	
STM32F101C8T6	STM32 ARM-based 32- bit MCU with 64 Kbytes Flash, 48-pin LQFP, Industrial Temperature	U6	LQFP48_L	
SM6T6V8A	TVS DIODE 5.8VWM	D1	STMicroelectronics_SM	
RUEF160	13.4VC SMB Littelfuse RUEF160 PTC Resettable Fuse 1.6A(hold) 3.2A(trip) 30V 100A 0.9W 8s 0.030hm Radial 8.9 X 3 X 15.2mm Bag	F1	6T6V8A_0	
NEELED	Descriptor Tierro	10	mon	
NE555P MHDR 1X02	Precision Timer Male Header 1X02	U3 P4	P008 MHDR1X02-254P	
MAX485ECSA+		U7	Maxim_Integrated_S8- 5_MFG	
MaleHDR_1X04	Male Header 1X04	P2	MHDR1X04-254P	
LMV358M	General Purpose, Low Voltage, Rail-to-Rail Output Operational Amplifiers, 8-pin Narrow SOIC	U4, U5	M08A_M	
L7805CV	Linear Voltage Regulator IC Positive FIXED	U1	TO-220 AB	
Input_Voltage	2 Pitch: 5 mm Color: green Contact surface: Tin Assembly	T1	MSTBV 2,5/2-G-5	
IDC Box Header 2x7		31	FT_IDCBH2x7	
HDR_3X2	Header, 3-Pin, Dual row	P1	MISC_HDR_2X3	
Green	[NoValue], LED	LED1_Power, LED2_5Volt, LED3_3.3Volt, LED4_GPIO	LED SMD 1206	
B2B-XH-A_LF_SN		32, 33	JST_0_MFG	
AMS1117-3.3	800mA LOW DROPOUT VOLTAGE REGULATOR	U2	SOT223-4N	
742792645 (Ferrite Bead)	SMD EMI Suppression Ferrite Bead WE-CBF, Z = 470 Ohm	ц	SMD-0603	
1000uF 560	Polar Capacitor	C1	cap 01 RESC4817X04N	
560	RES 1206 Resistor	R2, R3 R11	RESC3216X60M (1206)	
330K	Resistor	R4(R2_Timer)	Res-(1/2)	
330	Resistor	R15	RESC3216X60M (1206)	
120	Resistor	R18	RESC3216X60M (1206)	
100nF	Bipolar Capacitor	C2, C4, C7, C17, C18	CAPC3216L (1206)	
100nF	Bipolar Capacitor	C9, C10, C11, C12, C19	CAPC3216M (1206)	
100nF 100K	Bipolar Capacitor Resistor	C20, C21 R5(R1_Timer)	CAPC2012N (0805) Res-(1/2)	
20010		ro(rez_rimer)	1425 (1/1)	
100K		R9. R10	RESC3216X60M (1206)	
100K	Resistor	R9, R10	RESC3216X60M (1206)	
20pF	Resistor Bipolar Capacitor	C13, C14	CAPC1608M (0603)	
	Resistor			
20pF	Resistor Bipolar Capacitor	C13, C14	CAPC1608M (0603)	
20pF 20K	Resistor Bipolar Capacitor Resistor	C13, C14 R19, R20	CAPC1608M (0603) RESC3216X60M (1206)	
20pF 20K 20	Resistor Bipolar Capacitor Resistor Resistor	C13, C14 R19, R20 R12, R13	CAPC1608M (0603) RESC3216X60M (1206) RESC3216X60M (1206)	
20pF 20K 20 20	Resistor Sipolar Capacitor Resistor Resistor Sipolar Capacitor	C13, C14 R19, R20 R12, R13	CAPC1608M (0603) RESC3216X60M (1206) RESC3216X60M (1206) CAPC2012N (0805) RESC3216X60M (1206)	
20pF 20k 20 20 10nF 10K 8 MHz	Resistor Bipolar Capacitor Resistor Resistor Bipolar Capacitor Resistor Resistor Resistor XTAL Crystal	C13, C14 R19, R20 R12, R13 CS R8 R16, R17 Y1	CAPC1608M (0603) RESC3216X60M (1206) RESC3216X60M (1206) CAPC2012N (0805) RESC3216X60L (1206) RESC3216X60M (1206) Crystal SMD	
20pF 20K 20 10nF 10K	Resistor Bipolar Capacitor Resistor Resistor Bipolar Capacitor Resistor Resistor	C13, C14 R19, R20 R12, R13 C5 R8 R16, R17	CAPC1608M (0603) RESC3216X60M (1206) RESC3216X60M (1206) CAPC2012N (0805) RESC3216X60M (1206)	
20pF 20K 20 10nF 10K 10K 8 MHz 5K	Resistor Bjoder Capacitor Resistor Resistor Bjoder Capacitor Resistor Resistor Resistor Resistor XTAL Crystal Variable Resistor Female Header, Pitch 3.13 mm, Height 13.7 mm, 55 to 85 degC, Rorbs, Bulk	C13, C14 R19, R20 R12, R13 CS R8 R16, R17 Y1	CAPC1608M (0603) RESC3216X660M (1206) RESC3216X660M (1206) CAPC2012N (0805) RESC3216X60L (1206) RESC3216X60L (1206) RESC3216X60L (1206) PGC 00	
20pF 20K 20 20 10nF 10K 10K 8 MHz 5K	Resistor Bjoder Capacitor Resistor Resistor Bjoder Capacitor Resistor Resistor Resistor Resistor XTAL Crystal Variable Resistor Female Header, Pitch 3.13 mm, Height 13.7 mm, 55 to 85 degC, Rorbs, Bulk	C13, C14 R19, R20 R12, R13 C5 R8 R16, R17 Y1 VR1	CAPC1608H (0603) RESC3216X60M (1206) RESC3216X60M (1206) CAPC2012N (0805) RESC3216X60M (1206) RESC3216X60M (1206) RESC3216X60M (1206) PAR 00 TECO-5-1634503-1_V	
200F 200F 200K 200 200 100r 100K 100K 818482 SK SK 4-AuF 4-AuF 4-AuF 3-3-3-6F	Resistor Bpolar Capacitor Resistor Resistor Bpolar Capacitor Resistor Resistor Resistor XTAL Crystal Variable Resistor XTAL Crystal Variable Resistor XTAL Experiment Height 13.7 rmn, Tal Length 4.5 Robit Capacitor Resistor Resistor Resistor	C13, C14 R19, R20 R12, R13 C5 R8 R16, R17 Y1 VR1 J4 C3 R14 C22	CAPC1608M (0603) RESC3216X60M (1206) RESC3216X60M (1206) RESC3216X60M (1206) RESC3216X60M (1206) RESC3216X60M (1206) Crystal SMD Pct 00 TECO-5-1634503-1_V cap 01 RESC3216X60M (1206) Cp-100nF	
20pF 220K 220 20 10nF 100K 50 MHz 55 K 55 K 4.7uF 4.7uF	Resistor Bipolar Capacitor Resistor Resistor Resistor Bipolar Capacitor Resistor Resistor Resistor XTAL Crystal Variable Resistor XTAL Crystal 1.3.13 msp. Height 1.3.7 mm. +55 to 85 degC, Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	C13, C14 R19, R20 R12, R13 C5 R8 R16, R17 Y1 VR1 J4 C3 R14	CAPC1608H (0603) RESC3216X60M (1206) RESC3216X60M (1206) RESC3216X60M (1206) RESC3216X60M (1206) RESC3216X60M (1206) RESC3216X60M (1206) TECO-5-1634503-1_V Gap 01 RESC3216X60M (1206) Cap - 100nF RESC3216X60M (1206)	
200F 200F 200K 200 200 100r 100K 100K 818482 SK SK 4-AuF 4-AuF 4-AuF 3-3-3-6F	Resistor Bpolar Capacitor Resistor Resistor Bpolar Capacitor Resistor Resistor Resistor XTAL Crystal Variable Resistor XTAL Crystal Variable Resistor XTAL Experiment Height 13.7 rmn, Tal Length 4.5 Robit Capacitor Resistor Resistor Resistor	C13, C14 R19, R20 R12, R13 C5 R8 R16, R17 Y1 VR1 J4 C3 R14 C22	CAPC1608M (0603) RESC3216X60M (1206) RESC3216X60M (1206) RESC3216X60M (1206) RESC3216X60M (1206) RESC3216X60M (1206) Crystal SMD Pct 00 TECO-5-1634503-1_V cap 01 RESC3216X60M (1206) Cp-100nF	
200F 200K 200 200 200 100nF 100K 100K 100K 100K 100K 14.74 35.1634603-1 4.74 4.74 4.77 3.30F	Resistor Bpolar Capacitor Resistor Resistor Bpolar Capacitor Resistor Resistor Resistor XTAL Crystal Variable Resistor XTAL Crystal Variable Resistor XTAL Experiment Height 13.7 rmn, Tal Length 4.5 Robit Capacitor Resistor Resistor Resistor	C13, C14 R19, R20 R12, R13 C5 R8 R16, R17 Y1 VR1 J4 C3 R14 C22 R7	CAPC.1608M (0603) RESC3216460M (1206) RESC3216460M (1206) CAPC.2012N (0805) RESC3216460M (1206) CAPC.2012N (0805) RESC3216460M (1206) Crystal SMO Pet 00 TECO-5-1634503-1_V Cap 01 RESC3216460M (1206) Cap - 100F RESC3216460M (1206)	
20pF 20pF 20pC 200 20 20 20 20 20 20 20 20 20 40 20 40 40 40 40 40 40 40 40 40 40 40 40 40	Resistor Bipolar Capacitor Resistor Resistor Resistor Bipolar Capacitor Resistor Resistor XTAL Crystal Variable Resistor XTAL Crystal Variable Resistor XTAL Crystal Variable Resistor XTAL Crystal Variable Resistor XTAL Crystal Penale Header, Pitch 3.13 mm, Height 13.7 rmm, 55 to 85 degC, Refistor Resistor Resistor Resistor	C13, C14 R19, R20 R12, R13 C5 R8 R16, R17 Y1 VR1 J4 C3 R14 C22 R7	CAPC.1608M (0603) RESC3216X60M (1206) RESC3216X60M (1206) CAPC.2012M (0805) CAPC.2012M (0805) CAPC.2012M (0805) CAPC.2012M (0805) CAPC.2012M (0805) CAPC.2012M (0805) RESC3216X60M (1206) CAPC.2012M (0805) CAPC.2012M (0805	
20pF 200K 20 10nF 10nC 10nC 8 MH2 SK 4.7µF 4.7µF 4.7µF 1.22K 201909117 1uF	Resistor Bjodar Capacitor Resistor Female Header, Pitch 3.13 mm, 14sglet 13.7 mm, 7sl Length 23.7 mm, 7sl Length	C13, C14 R19, R20 R12, R13 CS R8 R16, R17 Y1 VR1 Z3 R14 C22 R7 Q1 C6 C8 C16	CAPC.1608H (0603) RESC3216466M (1206) RESC3216466M (1206) RESC3216466M (1206) CAPC.2012H (0805) RESC3216466M (1206) Crystal SMD Pet 00 TECO-5-16:34503-1_V Cap 01 RESC3216466M (1206) CAP-100nF RESC3216466M (1206) CAP-100nF CAPC.2164 (1206) CAP-100nF CAPC.2164 (1206)	
20pF 200K 20 10nF 100K 100K 8 MH2 SK 4.74F 4.74F 4.72F 2.22K 2019901TF 10F	Resistor Bpolar Capacitor Resistor Resistor Bipolar Capacitor Resistor Female Header, Pitch 3.13 mm, 14eight 13.7 mm, 14eight 13.7 mm, 14eight 13.7 mm, 25 to 85 dest), Resistor Resistor Resistor Resistor Bipolar Capacitor Resistor Bipolar Capacitor Resistor	C13, C14 R19, R20 R12, R13 CS R8 R16, R17 Y1 VR1 J4 C3 R14 C22 R7 Q1 C6 C8	CAPC.1608H (0603) RESC3216466M (1206) RESC3216466M (1206) CAPC.2012H (0805) RESC3216466M (1206) CAPC.3012H (0805) RESC3216466M (1206) Crystal SMD Pat 00 TECO-5-1634503-1_V Cap 01 RESC3216466M (1206) Cap - 100nF SAP, JMEG CAPC.31646 (1206) CAPC.31646 (1206) CAPC.31646 (1206) CAPC.31646 (1206)	