

Comment	Description	Designator	Footprint	LibRef	Quantity
10uF	SMD 0805	C1, C13	C-0805	CAP	2
10nF	SMD 0805	C2, C10, C24	C-0805	CAP	3
22pF	SMD 0805	C3, C4, C5, C6	C-0805	CAP	4
100nF	SMD 0805	C7, C9, C11, C14, C15, C25, C26	C-0805	CAP	7
100uF 16V	CAPACITOR ELECTROLYTIC 6.3x7mm	C8, C16	C-EL_6.5x7x2.5mm	CAP-EL	2
TAJB107K006RNJ	AVX - TAJB107K006RNJ - Surface Mount Tantalum Capacitor, 100 µF, 6.3 V, 1411 [3528 Metric], TAJ Series, ± 10%, -55 °C	C12	TAJB	TAJB107K006RNJ	1
TAJA106K010RNJ	Capacitor; Tantalum; Cap 10 uF; Tol 10%; Vol-Rtg 10 VDC; SMT; 3216; ESR 3 Ohms; TR	C17, C18	TAJA	TAJA106K010RNJ	2
4.7uF	SMD 0805	C19, C21, C23	C-0805	CAP	3
100nF	Ceramic Disk Capacitor 50V	C20, C22, C28, C35	C-BP-Ceramic-DIP	CAP	4
220pF	Ceramic Disk Capacitor 50V	C27	C-BP-Ceramic-DIP	CAP	1
3pF	Ceramic Disk Capacitor 50V	C29	C-BP-Ceramic-DIP	CAP	1
120pF	Ceramic Disk Capacitor 50V	C30, C34	C-BP-Ceramic-DIP	CAP	2
6.5-30pF	Trimmer / Variable Capacitors 6.5-30pF 100V 85 DEG	C31, C33	C-TR-DIP_5mm	GKG30015	2
1pF	Ceramic Disk Capacitor 50V	C32	C-BP-Ceramic-DIP	CAP	1
3V6	SMD MiniMELF	D1, D2, D3	SOD80	DIODE-Z	3
LED 3mm	LED	D4	LED-3MM	LED	1
MF-PSMF050	BOURNS MF-PSMF050X-2 FUSE, RESETTABLE PTC, 6V, 500MA, 0805	F1	MF-PSMF	MF-PSMF050X-2	1
EBMS201209A101	FERRITE BEAD 0805 100R 100Mhz	FB1, FB2, FB3, FB4	L-0805	EBMS201209A101	4
Jumper 2	2PIN DIP JAMPER 2.56mm	J1, J2	JAMPER-2-DIP_2.56mm	JUMPER-2	2
BNC	PIN HEADER 1x2 2.56mm	J3	PH-1X2-N3D	PH-1X2	1
Box Header R 2x5	IDC BOX HEADER RIGHT 2x5, 2.54MM, 10 Position	J4	HB-R-10	DS1013-10R	1
Debug	PIN HEADER 1x4 2.56mm	J5	PH-1X4	PH-1X4	1
Test Pulse	PIN HEADER 1x1 2.56mm	J6	PH-1X1-N3D	PH-1X1	1
100uH	Axial Lead Inductors(Coils)For Signal Line 100uH 165mA	L1	L-DIP_3x7mm_pin9mm	AL0307-101K-LF	1
USB Connector	USB Connector-B Type	P1	USB2.5-2H4E	USB-B	1
SS9014CBU	Bipolar (BJT) Single Transistor, NPN, 45 V, 270 MHz, 450 mW, 100 mA, 200	Q1	TO-92	SS9014CBU	1
1K	0805	R1, R2	R-0805	RES	2

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10K	0805	R3, R16, R22, R30, R31, R38, R39, R40, R41, R42, R43, R44	R-0805	RES	12
100K	Resistor DIP 1/4W 1%	R4, R18, R21	R-1/4W-DIP-Blue	RES	3
120R	Resistor DIP 1/4W 1%	R5, R14, R15	R-1/4W-DIP-Blue	RES	3
150R	Resistor DIP 1/4W 1%	R6, R7	R-1/4W-DIP-Blue	RES	2
1.8M	Resistor DIP 1/4W 1%	R8	R-1/4W-DIP-Blue	RES	1
1K	Resistor DIP 1/4W 1%	R9, R13	R-1/4W-DIP-Blue	RES	2
3K	Resistor DIP 1/4W 1%	R10	R-1/4W-DIP-Blue	RES	1
200K	Resistor DIP 1/4W 1%	R11	R-1/4W-DIP-Blue	RES	1
180R	Resistor DIP 1/4W 1%	R12	R-1/4W-DIP-Blue	RES	1
2M	Resistor DIP 1/4W 1%	R17	R-1/4W-DIP-Blue	RES	1
20K	Resistor DIP 1/4W 1%	R19	R-1/4W-DIP-Blue	RES	1
22K	0805	R20	R-0805	RES	1
2.2k	0805	R24, R25, R26, R27, R28, R29	R-0805	RES	6
4.7k	0805	R32, R33, R34, R35, R36, R37	R-0805	RES	6
MFP223P	Switch Slide ON ON ON Extended Top Slide 0.35A 30VDC 10000Cycle PC Pins Bracket Mount/Through Hole	SW1, SW2, SW3	MFP223P	MFP223P	3
CH340G	IC USB to Serial	U1	SOP-16	CH340G	1
STM32F030K6T6	STMICROELECTRONIC S - STM32F030K6T6 - ARM MCU, Value Line, STM32 Family STM32F0 Series Microcontrollers, ARM Cortex-M0, 32bit, 48 MHz	U2	LQFP-32	STM32F030K6T6	1
LD1117AS33TR	IC REG LINEAR 3.3V 1A SOT223	U3	SOT-223	LD1117AS33TR	1
TC7660COA	IC REG SWTCHD CAP INV 20MA 8SOIC	U4	SOIC-8	TC7660COA	1
TL084CD	IC OPAMP JFET 4MHZ 14SO	U5	SO-14	TL084CD	1
74HC245D	74HC Series 6V Surface Mount 3- State Octal Bus Transceiver - SOIC-20	U6	SOW-20	74HC245D	1
12 Mhz	Crystal oscillator	X1	XTAL-DIP_Small	XTAL	1
8 Mhz	Crystal oscillator	X2	XTAL-DIP_Small	XTAL	1