

Designator	Description	Comment	Value	Quantity	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Sop Part Num ber 1
VV, 12V, FAN0_1, FAN1_1, PS_ON, PWR	Header, 2-Pin	Header 2		4	Loading...	Loading...	Digi-Key	504447-ND
RV_S01, VF00_s01, VFA1_s01, VHE2_s01, X+, X-, Y-, Y-, Z-, Z-	Header, 3-Pin	Header 3		10	Loading...	Loading...	Digi-Key	300148-ND
C1	Polarized Capacitor (Surface Mount)	CapE-4.3-47uF-50V	47uF 50V	1	Loading...	Loading...	Digi-Key	5652231-1-ND
C2	Polarized Capacitor (Surface Mount)	CapE-4.3-100uF-16V	100uF 16V	1	Loading...	Loading...	Digi-Key	5652204-1-ND
C3, C4, C5, C6, C7, C11, C13, C16, C18, C19, C20, C23	Capacitor (Semiconductor SMD Model)	CapC-0603-100nF	100nF	10	Loading...	Loading...	Digi-Key	3111344-1-ND
C8, C14, C15, C19, C20	Capacitor (Semiconductor SMD Model)	CapC-0603-22pF	22pF	5	Loading...	Loading...	Digi-Key	4183204-1-ND
C9, C12, C26, C27, C28, C29	Capacitor SMD Cer 1uF 10% 18V X7R 0603	approved sub DK	1u	4	EDK Corporation	C168X7R1C105K	Digi-Key	4451604-1-ND
C21, C22, C23, C24, C25, C30, C31, C32	Polarized Capacitor (Surface Mount)	CapE-4.3-100uF-35V	100uF 35V	8	Loading...	Loading...	Digi-Key	9259746C-1-ND
D1, D6, D7	Default Diode	M4		3	Loading...	Loading...	Digi-Key	5102107-1-ND
D2, D3, D4	Default Diode			3	Loading...	Loading...	Digi-Key	2011706-ND
D5	Default Diode	Diode MBRM140	MBRM140	1	Loading...	Loading...	Digi-Key	468140-ND
D8	Default Diode	Diode MURS320	MURS320	1	Loading...	Loading...	Digi-Key	4451305-13F08-1-ND
D9, D10, D11, D12, D13, D14	Diode SMD 100V 1.5A SMA	100V 1.5A	VF = 1.15V @ 1.5A (Max)	4	Diodes Inc	S2BA-13-F	Digi-Key	528A130C1-ND
E0, E1, E2, X, Y, Z		A-4988BREAKOUT		4	Loading...	Loading...	Digi-Key	510056-ND
E0_M0T1, E1_M0T1, E2_M0T1, X_M0T1, Y_M0T1, Z_M0T1	Screw Terminal 3.5mm 4-Way	Screw Terminal-3.5mm-4Way		4	Loading...	Loading...	Digi-Key	2771144-ND
EL_M0T1_A, E1_M0T1_A, E2_M0T1_A, E1NC1, E1NC2, E1NC3, E1NC4, D08_A, X_M0T1_A, Y_M0T1_A, Z_M0T1_A	Header, 4-Pin	Header 4		11	Loading...	Loading...	Digi-Key	300149-ND
E15_MS, E1_MS, E2_MS, X_MS, Y_MS, Z_MS	DIP Switch	SW DIP-3		4	Loading...	Loading...	Digi-Key	7323833-1-ND
EXP1, EXP2	Header, 5-Pin, Dual row	Header 5X2		2	Loading...	Loading...	Digi-Key	300160-ND
EXP3	Header, 7-Pin, Dual row	Header 7X2		1	Loading...	Loading...	Digi-Key	300160-ND
F1, F2		Fusoholder - Mini ATC ATO 15A		2	Loading...	Loading...	Digi-Key	8K40123-ND
FAN0, FAN1, HE0, HE1, HE2	Screw Terminal 3.5mm 2-Way	Screw Terminal 3.5mm 2-Way		5	Loading...	Loading...	Digi-Key	2771174-ND
HB-OUT1, HB-PWR, MAIN-PWR	Screw Terminal 5mm 2-Way	Screw Terminal 5mm 2-Way		3	Loading...	Loading...	Digi-Key	44051277-ND
IC1	The high-performance, low-power Atmel 8-bit AVR RISC-based microcontroller	ATMEGA2560		1	Loading...	Loading...	Digi-Key	6306163-ND
IC2	High-Performance, Low-Power USB2.0 AVR® 8-Bit Microcontroller	ATMEGA16U2-AU		1	Loading...	Loading...	Digi-Key	6306163-ND
IC4	600mA, 500kHz Step-Down Switching Regulator in SOT-23	LT193ES6		1	Loading...	Loading...	Digi-Key	11701353A-ND
IC5	1.0 A Step-Down Switching Regulator	LM2596		1	Loading...	Loading...	Digi-Key	2963539-1-ND
ISP1, ISP2	Header, 3-Pin, Dual row	Header 3X2		2	Loading...	Loading...	Digi-Key	300159-ND
J2		USB connector		1	Loading...	Loading...	Digi-Key	12061306-1-ND
JAG, Thermistors	Header, 5-Pin, Dual row	Header 5X2		2	Loading...	Loading...	Digi-Key	300160-ND
L1	MagneticsCore Inductor with Winding Polarity Marking	Ferrite Bead SMD 0805	WE-CBF_0805 (WE-CBF)	1	Loading...	Loading...	Digi-Key	4901054-1-ND
L3	MagneticsCore Inductor with Winding Polarity Marking	Inductor SMD 33uH 1.2A	33uH	1	COILCRAFT	M556122-129M68	Farnell	####
L4	MagneticsCore Inductor with Winding Polarity Marking	Inductor SMD 47uH 1.8A	47uH	1	COILCRAFT	DO3316P-473M6D	Farnell	####
LD2, LD3, LD4, LD5, LD6, LD7, Power	Hyper-Bright Low Current LED C080AM	GREEN		7	Loading...	Loading...	Digi-Key	4751415-1-ND
LED1, EX, TX	Hyper-Bright Low Current LED C080AM	YELLOW		3	Loading...	Loading...	Digi-Key	4752545-1-ND
Q1, Q2, Q3, Q4, Q5, Q6		PSMN188-40VLC		6	Loading...	Loading...	Digi-Key	101516-1-ND
R1, R9	Resistor	Res-0603-1M	1M	2	Loading...	Loading...	Digi-Key	3111001-ND
R2, R2, R6, R11, R12, R21, R23, R25, R27, R29, R45	Resistor	Res-0603-10K	10K	11	Loading...	Loading...	Digi-Key	311100K-ND
R4, R13, R14, R15, R16, R17, R18, R23, R36, R39, R50, R53, R55, R56	Resistor	Res-0603-1K	1K	14	Loading...	Loading...	Digi-Key	311100K-ND
R5	Resistor	Res-0603-30K	30K	1	Loading...	Loading...	Digi-Key	311100K-ND
R7, R8	Resistor	Res-0603-22R	22R	2	Loading...	Loading...	Digi-Key	311220H-ND
R22, R24, R26, R28, R30, R32, R35, R38, R44, R47, R49, R52	Resistor	Res-0603-100K	100K	12	Loading...	Loading...	Digi-Key	311100K-ND
R31, R34, R37, R46, R48, R51	Resistor	Res-0603-10R	10R	4	Loading...	Loading...	Digi-Key	311100H-ND
R60, R61, R62, R63, R54	Resistor	Res-0603-4K7	4.7K	5	Loading...	Loading...	Digi-Key	31147K-ND
R57	Resistor	Res-0603-8K6	8.6K	1	Loading...	Loading...	Digi-Key	475844K-ND
Reset		SW_PB		1	Loading...	Loading...	Digi-Key	4752796-1-ND
V1, V2	Crystal Oscillator	14MHz		2	Loading...	Loading...	Digi-Key	5359041-ND
V1, V2	VARISTOR, CNO603 (VARISTOR)	VARISTOR	CC6030M-C-05K	2	Loading...	Loading...	Digi-Key	CC6030