

Line Item	Qty	Part	Value		Package	Description	MFG part#
			SURFACE MOUNT (SMD)	PARTS LIST			
1	8	R1, R2, R3, R4, R5, R6, R11, R12	0.27Ω		R1210	Resistor	MCR25JZHFLR270
2	6	R7, R8, R9, R29, R30, R31	100Ω		0603-RES	Resistor	RC0603JR-07100RL
3	14	R15, R17, R18, R20, R21, R22, R23, R24, R26, R27, R28, R34, R35	1kΩ		0603-RES	Resistor	RC0603JR-071KL
4	11	R10, R13, R14, R16, R25, R32, R33, R36, R37, R38	4.7kΩ		0603-RES	Resistor	RC0603JR-074K7L
5	4	VR1, VR2, VR3, VR4	10kΩ Trimmer		TRIMMER-23A	10K Trim Pot	23AR10KLFTR
6	4	C5, C7, C9, C19	0.01uF		0603-CAP	Ceramic Capacitor	C0603C103K5RACTU
7	15	C4, C6, C8, C11, C14, C17, C18, C20, C21, C24, C26, C27, C28, C29, C30	0.1uF		0603-CAP	Ceramic Capacitor	CL10F104Z080NNC
8	4	C10, C12, C13, C23	0.47uF		0603-CAP	Ceramic Capacitor	CL10B474KQ8NNC
9	8	C1, C2, C3, C15, C16, C25, C32, C33	4.7uF		C1210	Ceramic Capacitor	CL32B475KBUYNNE
10	4	D1, D2, D3, D4	BAT54C		SOT23	Diode (1pr Comm Cathode)	BAT54C
11	4	LED2, PWR-5V, TX, TX1	GREEN		LED-0603	Green LED's	LG Q071-KN-1
12	5	CEN, SEN, SDR, RX, RX(XB)	YELLOW		LED-0603	Yellow LED's	LY Q076-PTS2-36
13	1	Y1	16MHz		RESONATOR-SMD	16MHz Resonator	CSTCE16M0V63-R0
14	4	IC1, IC2, IC3, IC5	DRV88251		HTSSOP28PWP	Stepper Driver	DRV8825PWPR
15	1	IC4	ATMEGA328		TOFP32-08	Atmega 32P	ATMEGA328P-AUR
16	1	U2	SPDT		10MSOP	IC SWITCH DUAL SPDT	TS5A23157DGSR
17	1	U56	5V @500mA		SOT223	IC REG LDO 5V 0.5A	UA78M05CDCY
18	1	U57	3V3 @500mA		SOT223	IC REG LDO 3.3V 0.5A	UA78M33CDCY
19	1	IC6	FT232RLSSOP		SSOP28DB	USB to UART	FT232RL-REEL
20	1	Q1	MOSFET-N		SOT23-3	NFET	2N7002TP
21	3	F1, F2, F3	200mA Hold 400mA Trip		PTC-1206	200mA PTC Fuse (30V)	QZCJ0020FF2E
22	1	JP3	M05X2SMD		2X5-SMD SHROUD	IDC Header (Opt)	AWHW10-G-SMD-R
23	1	RESET	mom-SPST-NO		TACTILE SWITCH SMD	Mom PB Switch	RS-187R05A2-DS MT RT
24	2	Xbee/Wifi/Bluetooth connector 2mm x 10s				2mm x10p Headers	NPPN101BFLD
THROUGH-HOLE COMPONENTS							
25	1	J1			ATX 24p VERT	ATX Connector	442060007
26	1	AOUT			SCREWTERMINAL-3.5mm-4	4p 3.5mm Term Strip	OSTTE040704
27	3	XOUT, YOUT, ZOUT			SCREWTERMINAL-3.5mm-6	6p 3.5mm Term Strip	OSTTE060704
28	1	JP11			SCREWTERMINAL-3.5mm-9	9p 3.5mm Term Strip	OSTTE090704
29	1	JP12			SCREWTERMINAL-5mm-2	2p 5mm Term Strip	1935161
30	4	JP5, JP8, JP9, JP10			4p Header-2.54mm	(OPTIONAL) 4p Stepper Header	M20-9990445
31	1	USB			USB-B-PTH	USB B Jack	USB-B1HSB6
32	5	XSTEP, YSTEP, ZSTEP, ASTEP, ISP			2x3p Header-2.54mm	2x3p Jumper (male)	M20-9980346
33	12	MISC PARTS	N/A		N/A	Jumpers for STEP	969102-0000-DA