BOM

Item #	Qty	Part	Value	Package	Description	MFG part#			
SURFACE MOUNT (SMD) PARTS LIST									
1	8	R1, R2, R3, R4, R5,	0.27Ω	R1210	Resistor	MCR25JZHFLR270			
		R6, R11, R12	0.2712	N IZ IU	Kesisioi	WCR25JZHFLR270			
2	6	R7, R8, R9, R29, R30,	100Ω	0603-RES	Resistor	RC0603JR-07100RL			
		R31							
3	14	R15, R17, R18, R19,	1kΩ	0603-RES	Resistor	RC0603JR-071KL			
		R20, R21, R22, R23,							
		R24, R26, R27, R28,							
		R34, R35							
	11	R10, R13, R14, R16,	4.71.0	0000 DEC	Resistor	RC0603JR-074K7L			
4		R25, R32, R33, R36,	4.7kΩ	0603-RES					
5	4	R37, R38 VR1, VR2, VR3, VR4	10kΩTrimmer	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,	0.1uF	0603-CAP	Ceramic Capacitor	CL10F104ZO8NNNC			
		C17, C18, C20, C21,							
		C24, C26, C27, C28,							
8	4	C29, C30	0.47uF	0603-CAP	Ceramic Capacitor	CL10B474KQ8NNNC			
0	4	C10,C12,C13,C23 C1, C2, C3, C15, C16,	0.47 ur	0003-CAP	Ceramic Capacitor	CL 10B474KQ8NNNC			
9	8	C25, C32, C33	4.7uF	C1210	Ceramic Capacitor	CL32B475KBUYNNE			
10	4	D1, D2, D3, D4	BAT54C	SOT23	Diode (Comm Cathode)	BAT54C			
11	4	LED2,PWR-	GREEN	LED-0603	Green LED's	LG Q971-KN-1			
		5V,TX,TX1							
12	5	CEN,SEN,SDR,RX,RX	YELLOW	LED-0603	Yellow LED's	LY Q976-P1S2-36			
		(XB)							
13	1	Y1	16MHz	RESONATOR-SMD	16MHz Resonator	CSTCE16M0V53-R0			
14	4	IC1,IC2,IC3,IC5	DRV88251	HTSSOP28PWP	Stepper Driver	DRV8825PWPR			
15	1	IC4	ATMEGA328	TQFP32-08	Atmega 32P	ATMEGA328P-AUR			
16	1	U2	SPDT	10MSOP	IC SWITCH DUAL SPDT	TS5A23157DGSR			

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17	1	U\$6	5V @500mA	SOT223	IC REG LDO 5V 0.5A	UA78M05CDCY			
18	1	U\$7	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/400mA	PTC-1206	200mA PTC Fuse (30V)	0ZCJ0020FF2E			
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		TERMINAL-3.5mm-4	4p 3.5mm Term Strip	OSTTE040104			
27	3	XOUT,YOUT,ZOUT		TERMINAL-3.5mm-6	6p 3.5mm Term Strip	OSTTE060104			
28	1	JP11		TERMINAL-3.5mm-9	9p 3.5mm Term Strip	OSTTE090104			
29	1	JP12		TERMINAL-5mm-2	2p 5mm Term Strip	1935161			
30	4	JP5, JP8, JP9, JP10		4p Header-2.54mm	4p Stepper Header	M20-9990445			
31	1	USB		USB-B-PTH	USB B Jack	USB-B1HSB6			
32	5	XSTEP,YSTEP,ZSTE P,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			

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