Acrobotic AVR Synthesizer

Part	Qty.	Reference	Description
WHI.	2	R1, R6	10KOhm 1/4W Resistor
JH	3	R2, R3, R5	270Ω 1/4W Resistor
Jill	1	R4	220Ω 1/4W Resistor
N. T. C.	1	R7	4.7KΩ 1/4W Resistor
	5	VR1, VR2, VR3, VR4, VR5	10KΩ Potentiometer
8	1	VR6	10KΩ Trimmer (Optional)
	2	C1, C2	4.7μF Capacitor (Electrolytic)
22J	2	C3, C4	22pF Capacitor (Ceramic)
473	2	C5, C6	0.047μF Capacitor (Ceramic)
104	2	C7, C8	0.1µF Capacitor (Ceramic)
	2	L1, L2	4700μH Inductor
*	1	D1	Small-Signal Diode
,,	1	D2	General Purpose Rectifier Diode
this	1	Q1	16MHz Crystal Oscillator
	1	U1	28-Pin Socket
*	2	U2, U3	8-Pin Socket
	1	(U1)	ATMega328p IC

TLC6632	1	(U2)	Rail-to-Rail Dual Op Amp IC
6N138	1	(U3)	High-Gain Darlington Optocoupler IC
A LILE	3	R2, R3, R5	270Ω 1/4W Resistor
A LINE	1	R4	220Ω 1/4W Resistor
A. I. I.	1	R7	4.7KΩ 1/4W Resistor
	5	VR1, VR2, VR3, VR4, VR5	10KΩ Potentiometer
8	1	VR6	10KΩ Trimmer (Optional)
	2	C1, C2	4.7μF Capacitor (Electrolytic)
22J	2	C3, C4	22pF Capacitor (Ceramic)
473	2	C5, C6	0.047µF Capacitor (Ceramic)
104	2	C7, C8	0.1μF Capacitor (Ceramic)
	2	L1, L2	4700μH Inductor
*	1	D1	Small-Signal Diode
1100	1	D2	General Purpose Rectifier Diode
HHE	1	Q1	16MHz Crystal Oscillator
A STATE OF THE STA	1	U1	28-Pin Socket
	2	U2, U3	8-Pin Socket
	1	(U1)	ATMega328p IC