

RF Speech Clipper Materials List						
Part	Qty	Description	Source	Part Number	Price	Extended
U1, U2, U3, U4, U5, U6, U7, U8	8	Op Amp, Dual, RC4558IP, DIP8	mouser.com	595-RC4558IP	\$0.42	\$3.36
U9, U10, U11	3	Balanced Modulator/Demodulator, MC1496, DIP14	futurlec.com	MC1496P	\$0.69	\$2.07
U12	1	LED Display Driver, LM3915, DIP18	mouser.com	926-LM3915N-1/NOPB	\$2.82	\$2.82
U13	1	Voltage Regulator, 12V, 1A, LM7812	mouser.com	512-LM7812ACT	\$0.70	\$0.70
Q1	1	Transistor, FET, N channel, 2N4393, TO-18	mouser.com	610-2N4393	\$2.69	\$2.69
Q2, Q3	2	Transistor, PNP, 2N3906, TO-92	mouser.com	512-2N3906BU	\$0.20	\$0.40
Q4, Q5, Q6, Q7	4	Transistor, NPN, 2N3904, TO-92	mouser.com	610-2N3904	\$0.41	\$1.64
D1	1	Diode, 1N4148	mouser.com	583-1N4148-T	\$0.03	\$0.03
D2, D14, D15, D16	4	Diode, 1N4004	mouser.com	512-1N4004	\$0.14	\$0.56
D3, D4, D5, D6, D7, D8	6	LED, Green, 2mA	mouser.com	645-551-1307F	\$1.35	\$8.10
D9, D10, D11	3	LED, Yellow, 2mA	mouser.com	645-551-1207F	\$1.35	\$4.05
D12, D13	2	LED, Red, 2mA	mouser.com	645-551-1107F	\$1.35	\$2.70
D17	1	Diode Bridge, 800V, 2A	mouser.com	625-2KBP08M-E4	\$0.78	\$0.78
J1, J2	2	Jack, RJ-45, 8 pin, pcb mount	mouser.com	806-GDLX-N-88	\$1.07	\$2.14
J3	1	Jack, 2.5mm x 5.5mm, DC power, pcb mount	mouser.com	163-7625E-E	\$0.64	\$0.64
J4	1	Jack, 3.5mm, Stereo, pcb mount	mouser.com	806-STX-3100-3CB	\$1.06	\$1.06
L1	1	Inductor, 100uH, Nytronics Wee-100	mouser.com	542-78F101-RC	\$0.21	\$0.21
L2	1	Inductor, 1mH, J.W. Miller 4652	mouser.com	542-4652-RC	\$1.92	\$1.92
S1	1	Switch, Pushbutton DPDT, Locking	mouser.com	611-PHA2UEE	\$0.99	\$0.99
S1	1	Switch Cap, Black	mouser.com	611-G003A	\$0.44	\$0.44
Enclosure	1	Enclosure, Aluminum, Black, 6.3"L x 6.5"W x 1.2"H	mouser.com	546-1455R1601BK	\$26.66	\$26.66
R1	1	Potentiometer, 10K, linear taper	mouser.com	858-PO90S14T20BR10K	\$0.66	\$0.66
R2, R24, R26, R27, R29, R30, R31, R32, R33, R35, R54, R55, R71, R80, R81, R82, R85, R90	18	Resistor, Metal Film, 1/4W, 1%, 10K	mouser.com	271-10K-RC	\$0.13	\$2.34
R3, R4	2	Resistor, Metal Film, 1/4W, 1%, 249K	mouser.com	271-249K-RC	\$0.13	\$0.26
R5	1	Resistor, Metal Film, 1/4W, 1%, 100	mouser.com	271-100-RC	\$0.13	\$0.13
R6	1	Resistor, Metal Film, 1/4W, 1%, 340	mouser.com	271-340-RC	\$0.13	\$0.13
R7	1	Resistor, Metal Film, 1/4W, 1%, 13.3K	mouser.com	271-13.3K-RC	\$0.13	\$0.13
R8	1	Resistor, Metal Film, 1/4W, 1%, 1.37K	mouser.com	271-1.37K-RC	\$0.13	\$0.13
R9	1	Resistor, Metal Film, 1/4W, 1%, 6.49K	mouser.com	271-6.49K-RC	\$0.13	\$0.13
R10	1	Resistor, Metal Film, 1/4W, 1%, 1.13K	mouser.com	271-1.13K-RC	\$0.13	\$0.13
R11	1	Resistor, Metal Film, 1/4W, 1%, 113K	mouser.com	271-113K-RC	\$0.13	\$0.13
R12, R13	2	Resistor, Metal Film, 1/4W, 1%, 10.7K	mouser.com	271-10.7K-RC	\$0.13	\$0.26
R14, R21, R22	3	Resistor, Metal Film, 1/4W, 1%, 8.06K	mouser.com	271-8.06K-RC	\$0.13	\$0.39
R15, R16	2	Resistor, Metal Film, 1/4W, 1%, 9.53K	mouser.com	271-9.53K-RC	\$0.13	\$0.26
R17	1	Resistor, Metal Film, 1/4W, 1%, 5.76K	mouser.com	271-5.76K-RC	\$0.13	\$0.13
R18, R19	2	Resistor, Metal Film, 1/4W, 1%, 9.76K	mouser.com	271-9.76K-RC	\$0.13	\$0.26
R20	1	Resistor, Metal Film, 1/4W, 1%, 5.9K	mouser.com	271-5.9K-RC	\$0.13	\$0.13
R23	1	Resistor, Metal Film, 1/4W, 1%, 5.36K	mouser.com	271-5.36K-RC	\$0.13	\$0.13
R25	1	Resistor, Metal Film, 1/4W, 1%, 2.55K	mouser.com	271-2.55K-RC	\$0.13	\$0.13
R28	1	Resistor, Metal Film, 1/4W, 1%, 28K	mouser.com	271-28K-RC	\$0.13	\$0.13
R34	1	Resistor, Metal Film, 1/4W, 1%, 110K	mouser.com	271-110K-RC	\$0.13	\$0.13
R36, R87, R88	3	Resistor, Metal Film, 1/4W, 1%, 100K	mouser.com	271-100K-RC	\$0.13	\$0.39
R37, R38, R39	3	Resistor, Metal Film, 1/4W, 1%, 150	mouser.com	271-150-RC	\$0.13	\$0.39
R40, R41, R52, R53, R58, R60, R66, R67, R68, R70, R86, R93, R94, R95	14	Resistor, Metal Film, 1/4W, 1%, 1K	mouser.com	271-1K-RC	\$0.13	\$1.82
R46, R48, R65	3	Resistor, Metal Film, 1/4W, 1%, 51	mouser.com	271-51-RC	\$0.13	\$0.39
R43, R45, R64	3	Resistor, Metal Film, 1/4W, 1%, 820	mouser.com	271-820-RC	\$0.13	\$0.39
R42, R44, R47, R49	4	Resistor, Metal Film, 1/4W, 1%, 200	mouser.com	271-200-RC	\$0.13	\$0.52
R50, R51, R69	3	Resistor, Metal Film, 1/4W, 1%, 1.3K	mouser.com	271-1.3K-RC	\$0.13	\$0.39
R56, R57, R59, R61, R91	5	Resistor, Metal Film, 1/4W, 1%, 1.5K	mouser.com	271-1.5K-RC	\$0.13	\$0.65
R62, R63	2	Resistor, Metal Film, 1/4W, 1%, 5.1K	mouser.com	271-5.1K-RC	\$0.13	\$0.26
R72, R73	2	Resistor, Metal Film, 1/4W, 1%, 3.0K	mouser.com	271-3.0K-RC	\$0.13	\$0.26
R74, R75	2	Resistor, Metal Film, 1/4W, 1%, 5.23K	mouser.com	271-5.23K-RC	\$0.13	\$0.26
R76	1	Resistor, Metal Film, 1/4W, 1%, 3.74K	mouser.com	271-3.74K-RC	\$0.13	\$0.13
R77, R78	2	Resistor, Metal Film, 1/4W, 1%, 7.5K	mouser.com	271-7.5K-RC	\$0.13	\$0.26
R79	1	Resistor, Metal Film, 1/4W, 1%, 3.83K	mouser.com	271-3.83K-RC	\$1.13	\$1.13
R83	1	Resistor, Metal Film, 1/4W, 1%, 4.7K	mouser.com	271-4.7K-RC	\$2.13	\$2.13
R84	1	Potentiometer, 1K, linear taper	mouser.com	858-PO90S14T20BR1K	\$0.82	\$0.82
R87, R88	2	Resistor, Metal Film, 1/4W, 1%, 866	mouser.com	271-866-RC	\$0.13	\$0.26
R89	1	Resistor, Metal Film, 1/4W, 1%, 47K	mouser.com	271-47K-RC	\$0.13	\$0.13
R92	1	Resistor, Metal Film, 1/4W, 1%, 1.2K	mouser.com	271-1.2K-RC	\$0.13	\$0.13
C1, C2, C3, C10, C16, C21, C26, C30, C36, C39, C40, C41, C42, C43, C44, C47, C48, C50, C51, C52, C53, C59, C62, C65, C68	25	Capacitor, Ceramic, 25V, 10%, 0.1uF, Spacing 5mm	mouser.com	810-FK28X7R1E104K	\$0.17	\$4.15
C4	1	Capacitor, Film, 63V, 2%, 0.2uF, Spacing 10mm	mouser.com	594-222241642004	\$3.81	\$3.81
C5	1	Capacitor, Film, 400V, 2%, 0.02uF, Spacing 5mm	mouser.com	594-2222-419-42003	\$3.31	\$3.31
C6	1	Capacitor, Film, 250V, 2%, 0.22uF, Spacing 15mm	mouser.com	80-F461BC224G250C	\$0.68	\$0.68
C7, C8, C13, C17	4	Capacitor, Film, 250V, 2%, 0.068uF, Spacing 5mm	mouser.com	594-2222-416-16803	\$3.08	\$12.32
C9	1	Capacitor, Film, 250V, 2%, 0.13uF, Spacing 10mm	mouser.com	594-2222-416-41304	\$0.86	\$0.86
C11, C12	2	Capacitor, Film, 63V, 2%, 0.033uF, Spacing 5mm	mouser.com	505-FKP20.033/63/2.5	\$0.77	\$1.54
C14	1	Capacitor, Film, 63V, 2%, 0.047uF, Spacing 5mm	mouser.com	594-2222-416-44703	\$2.84	\$2.84
C19, C60	2	Capacitor, Film, 250V, 2%, 0.1uF, Spacing 15mm	mouser.com	80-F461BB104G250L	\$0.81	\$1.62
C15, C25, C27, C29, C31, C58	6	Capacitor, Film, 250V, 2%, 0.01uF, Spacing 5mm	mouser.com	594-2222-418-41003	\$1.59	\$9.54
C20	1	Capacitor, Film, 63V, 2%, 680pF, Spacing 5mm	mouser.com	80-PFR5681I6311114	\$0.57	\$0.57
C22	1	Capacitor, Film, 63V, 2%, 0.33uF, Spacing 15mm	mouser.com	594-2222-416-73304	\$4.30	\$4.30
C23, C24	2	Capacitor, Film, 100V, 2%, 100pF, Spacing 5mm	mouser.com	505-FKP2100/100/2.5	\$0.33	\$0.66
C33, C34, C35	3	Capacitor, Film, 400V, 2%, 0.003uF (3000pF), Spacing 5mm	mouser.com	594-2222-419-13002	\$2.33	\$6.99
C18, C37, C38	3	Capacitor, Film, 400V, 2%, 0.0022uF (2200pF), Spacing 5mm	mouser.com	594-2222-419-42202	\$1.37	\$4.11
C49	1	Capacitor, Ceramic, 50V, 5%, 270pF, Spacing 5mm	mouser.com	810-FK28COG1H271J	\$0.28	\$0.28
C54, C55	2	Capacitor, Ceramic, 50V, 10%, 0.005uF (5000pF), Spacing 2.54mm	mouser.com	581-SR155C502KAT	\$0.24	\$0.48
C56, C63	2	Capacitor, Ceramic, 25V, 10%, 0.47uF, Spacing 5mm	mouser.com	810-FK28X5R1E474K	\$0.28	\$0.56
C57	1	Capacitor, Film, 63V, 2%, 0.051uF, Spacing 5mm	mouser.com	594-2222-416-45103	\$2.84	\$2.84
C61	1	Capacitor, Film, 400V, 2%, 0.001uF, Spacing 5mm	mouser.com	594-2222-419-41002	\$1.20	\$1.20
C45, C46	2	Capacitor, Electrolytic, 25V, 20%, 22uF, Spacing 2mm	mouser.com	647-UVR1E220MDD1TD	\$0.23	\$0.46
C28, C32, C69	3	Capacitor, Electrolytic, 25V, 20%, 10uF, Spacing 2mm	mouser.com	647-UVZ1E100MDD1TA	\$0.29	\$0.87
C64	1	Capacitor, Ceramic, 50V, 10%, 0.33uF, Spacing 5mm	mouser.com	810-FK28X7R1E334K	\$0.31	\$0.31
C66	1	Capacitor, Electrolytic, 50V, 20%, 1uF, Spacing 2mm	mouser.com	647-UFW1H1010MDD	\$0.23	\$0.23
C67	1	Capacitor, Electrolytic, 50V, 20%, 47uF, Spacing 2mm	mouser.com	647-UPW1V470MDD	\$0.23	\$0.23
C70	1	Capacitor, Electrolytic, 25V, 20%, 470uF, Spacing 3.5mm	mouser.com	667-EU-FR1E471Y	\$0.67	\$0.67
C71	1	Capacitor, Electrolytic, 25V, 20%, 100uF, Spacing 2mm	mouser.com	647-UVY1E101MDD	\$0.21	\$0.21
C72, C73	2	Capacitor, Electrolytic, 50V, 20%, 4700uF, Spacing 2mm	mouser.com	647-UVZ1H472MRD	\$2.79	\$5.58
C74	1	Capacitor, Tantalum, 25V, 20%, 1uF, Spacing 2mm	mouser.com	581-TAP105K025SCS	\$0.46	\$0.46
JP1	1	Header, 2X10, 0.1" spacing	mouser.com	649-6799E-120HFL	\$0.87	\$0.87
JP2	1	Header, 1X3, 0.1" spacing	mouser.com	649-68000-203HLF	\$0.12	\$0.12
TP1, TP2	2	Test Point, Red	mouser.com	534-5000	\$0.33	\$0.66
	7	Shorting Block, 1X2, 0.1" spacing	mouser.com	806-SX1100-A	\$0.12	\$0.84
	4	Jumper, 3", female to female crimped terminals	mouser.com	872-920-0008-01-1PC	\$0.46	\$1.84
Control Knob	2	Knob, Aluminum, 1/2" Dia., Black	mouser.com	450-6009	\$2.19	\$4.38
Optional	0	RJ-45 Patch Cable, 2 foot	mouser.com	601-73-7792-5	\$2.54	\$0.00
G1	1	Horizontal screw terminal, ground	mouser.com	534-7690	\$0.47	\$0.47
Optional	0	Mic Connector, Round, In-Line, 8-Pin, Male	vetco.net	CAL-30-512M	\$5.95	\$0.00
Optional	0	Mic Connector, Round, In-Line, 8-Pin, Female	vetco.net	CAL-30-512	\$4.99	\$0.00
T1	1	Transformer, 120VAC to 15VAC, 400mA	mouser.com	546-229A30	\$10.63	\$10.63
	1	AC Wall Plug Enclosure, 2 poles, no receptacle holes, no tab	polycase.com	PM2425	\$4.90	\$4.90
P1	1	Barrel Plug and Cable, 2.5mm x 5.5mm	mouser.com	172-4201	\$5.32	\$5.32
PC Board	1	PC Board, Double Sided, Standard Service, 6.3" X 6.3"	expresspcb.com	RF Speech Clipper PCB.pcb	\$65.83	\$65.83
Optional	3	IC Socket, DIP14	mouser.com	571-2-1571552-3	\$1.07	\$3.21
Optional	8	IC Socket, DIP8	mouser.com	571-2-1571552-2	\$0.81	\$6.48
Optional	1	IC Socket, DIP18	mouser.com	575-11044318	\$1.00	\$1.00

\$258.89