

PARTS LIST

Fixed resistors are 1/4-watt, 5% values.

R1	100 Ω trimmer
R2	390 Ω
R3	500 Ω trimmer
R4, R5	1k
R6	1.8k
R7	2k, +3500ppm/ $^{\circ}$ C thermistor
R8	2.2k
R9	3k
R10 - R12	4.7k
R13, R14	5.6k
R15 - R19	10k
R20	11k
R21	20k (see note)
R22	25k trimmer
R23	47k
R24	50k trimmer
R25	82k
R26 - R31	100k
R32 - R37	100k linear potentiometer
R38	150k
R39	200k
R40, R41	220k
R42	1M trimmer
R43	1.5M
R44, R45	2.2M
R46	3.3M

All capacitors are 16V or better.

C1	100pF disc
C2	470pF disc
C3 - C6	0.01 μ F disc
C7	0.047 μ F mylar
C8	0.22 μ F mylar
C9, C10	4.7 μ F electrolytic
C11 - C13	10 μ F electrolytic

Semiconductors

D1 - D6	1N4148 diode
Q1, Q2	LM394 matched transistor pair
Q3	2N3904
IC1	XR-2206 function generator
IC2	LF442 dual op-amp
IC3	TL074 quad op-amp

Other components

J1 - J7	1/4" phone jack, n.o.
S1	DPDT toggle switch

Miscellaneous: printed circuit board, IC sockets, front panel, knobs, wire, solder, heat sink grease, etc.

Note: Increase R21 to 22k or even 24k if sine amplitude is shy of $\pm 5V$.