

VCO MAXIMUS — PARTS LIST

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

R1	390Ω
R2, R3	470Ω
R4	820Ω
R5, R6	1.5k
R7, R8	1.8k
R10, R9	2k
R11, R12	2.2k
R13 – R15	3k
R16, R17	5.6k
R18 – R27	10k
R28, R29	10k trimmer
R30	15k
R31	18k
R32 – R34	20k
R35	22k
R36	24k
R37	30k
R38, R39	47k
R40, R41	50k trimmer
R42 – R46	100k
R47 – R52	100k linear potentiometer
R53	120k
R54	300k
R55	360k
R56 – R59	1M
R60	1.5M
R61	3.3M
R62	10 M

All capacitors are 16V or better.

C1	22pF disc
C2	33pF disc
C3	47pF disc
C4	1000pF poly
C5, C6	0.001μF mylar
C7, C8	0.01μF mylar
C9 – C20	0.1μF disc
C21	0.22μF mylar
C22, C23	10 μF electrolytic

Semiconductors

D1	1N4148 diode
Q1, Q2	2N3904 NPN transistor
IC1	CEM3340 VCO chip
IC2	CD4070 quad XOR gate
IC3	CD4013 dual flip-flop
IC4, IC5	TL072 dual op-amp
IC6	TL071 op-amp

Other components

SW1	DPDT switch
SW2 – SW4	SPDT switch
J1 – J8	1/4" Phone Jack - n.o.
J9	1/4" Phone Jack - n.c.