

Simplicio - Bill of Materials

Date last updated: **11 February 2007**

Semiconductors

	Qty	Value	Notes
Q1, Q2	2	2N5401	Input differential pair Substitutes: BC556
Q3	1	TIP41	Voltage amplification stage (VAS)
Q4	1	TIP41	Driver
Q5	1	TIP42	Driver
Q6	1	2SC5200	Output
Q7	1	2SA1943	Output
Z1	1	1N4742	12V Zener diode – 200mW or more

Capacitors

	Qty	Value	Notes
C1	1	47uF/16V	Electrolytic
C2, C4, C7, C8, C11, C13, C15, C17, C18	9	100nF	MKT Polyester
C3, C6, C12	3	47uF/50V	Electrolytic
C5	1	220pF	NPO Ceramic
C9	1	12pF	NPO Ceramic / Silver Mica
C10	1	220uF/16V	Electrolytic
C14	1	5,6pF	NPO Ceramic / Silver Mica
C16, C19	2	1,000uF/50V	Electrolytic

Resistors

	Qty	Value	Notes
R1	1	22k	
R2	1	150k	
R3, R11	2	39k	

R4, R8, R16, R17	4	100	
R5, R9	2	1k	
R6,	1	2k2	
R7	1	4k7	
R10	1	330	
R12	1	2k2	1 watt
R13	1	2k7	1 watt
R14	1	390	
R15, R18	2	82	
R19	1	120	
R20, R21	2	33	
R22	1	10	1 watt
R23	1	10	
VR1	1	10k	
VR2	1	500	

Note: All resistors are standard metal film 250mW except where noted.

Miscellaneous

	Qty	Value	Notes
L1	1		27 turns of 0.6mm enamelled copper wire is wound around R23 forming the output coil.