

Universal VFO - less frequency dependent components

Value	Quantity	Description	Reference
		Capacitors	
10 pf	3	100 V C0G	C4,6,28
.1 uf	19	Panasonic V Series 50 V	C5, 7, 9, 10, 11, 14, 15, 19, 21, 29, 30, 32, 33, 34, 35, 36, 37, 41, 43
10 uf	4	Panasonic KA Series Electrolytic 16 V	C8, 20, 31, 42
		Variable capacitor	C1
		Resistors	
10 ohm	1	5 % 1/4 w carbon film	R6
22 ohm	2	5 % 1/4 w carbon film	R8, 29
51 ohm	5	5 % 1/4 w carbon film	R5, 10, 11, 28, 31
180 ohm	3	5 % 1/4 w carbon film	R2, 7, 27
270 ohm	3	5 % 1/4 w carbon film	R4, 9, 30
3.3 k	2	5 % 1/4 w carbon film	R13, 15
4.7 k	3	5 % 1/4 w carbon film	R18, 20, 23
10 k	7	5 % 1/4 w carbon film	R17, 19, 21, 22, 24, 25, 26
33 k	1	5 % 1/4 w carbon film	R16
100 k	1	5 % 1/4 w carbon film	R3
1 M	2	5 % 1/4 w carbon film	R1, 12
10k	1	Potentiometer	R14
		Transistors	

J310	4		Q1, 2, 3, 9
2N3906	2		Q4, 5
2N3904	3		Q6, 7, 8
		IC's	
78L06	1		U1
78L09	1		U2
		Diodes	
1N4148	4	or equiv	D1, 2, 4, 5
MV2207 or MV2209	1	or equiv (22 pf at 4V)	D3
		Toroids	
FT37-43	3	8 Turns Trifilar	T1, 2, 3