

Parts list:

Qty.	Reference designator	Description	Notes/ markings
2	C6, C15	10 pF C0G cap	
2	C40, C41	22 pF C0G cap	
5	C1,C3,C8,C12,C16	47 pF C0G cap	
1	C53	12-60 pF trim cap	brown
2	C17,C52	68 pF C0G cap	
3	C7,C9,C11	100 pF C0G cap	
2	C2,C10	150 pF C0G cap	
1	C49	220 pF C0G cap	
1	C51	270 pF C0G cap	
4	C21,C22,C24,C50	470 pF C0G cap	
1	C26	820 pF C0G cap	
1	C27	.0022 (2200 pF) C0G cap	
9	C4,C5,C13,C14,C31,C37,C38,C39 C47	.01 uF cap	
1	C18	.033 uF cap	
15	C19,C20,C23,C25,C28,C32,C33, C34,C35,C36,C42,C44,C45,C46 C48	0.1 uF cap	
3	C29,C30, C43	100 uF electrolytic cap	

All resistors are $\pm 5\%$ tolerance $\frac{1}{4}$ watt.

2	R13, R23	4.7 ohm	Yellow-violet-gold-gold
2	R14, R15	470 ohm	Yellow-violet-brown-gold
1	R22	1.0K ohm	Brown-black-red-gold
2	R1, R16	5K potentiometer, PCB mount	
8	R2, R3, R11, R17-R21	10K ohm	Brown-black-orange-gold
2	R8, R9	22K ohm	Red-red-orange-gold
2	R4, R5	150K ohm	Brown-green-yellow-gold
2	R7, R10	510K ohm	Green-brown-yellow-gold
2	R6, R12	1.0M ohm	Brown-black-green-gold

1	CAL	2-pin male header, .100"	
1	CAL	2-pin female jumper	

1	D1	1N5818 diode	Black case
4	D2, D3, D4, D5	1N4148 diode	Glass case, small
2	D6, D7	BAT85 diode	
1	D8	1N4756 diode	Glass case, larger

1	J1	BNC jack, right-angle mount	
1	J2	DC power jack	
2	J3, J4	Key and audio jacks, 3.5mm 3-cond.	
--	J5	6-pin .100" male header	not supplied in kit
--	J6	4-pin .100" male header	not supplied in kit

2	L1, L2	3.3 μ H RF choke	Orange-orange-gold-gold
2	L3, L4	18 μ H RF choke	Brown-grey-gold-gold
1	L5	FT37-43 toroid	See group 7 instructions
2	L6, L7	T37-2 toroid	See group 7 instructions

5	Q1, Q3, Q5, Q6, Q7	BS170 MOSFET	
1	Q2	J113 JFET	
1	Q4	NTD2955	Small heat sink tab
2	U1, U2	SA612AD 8-pin SOIC-8 IC	(pre-installed)
1	U3	NE5532	8-pin DIP IC
1	U4	LM78M05	Small heat sink tab
1	U5	ATmega328P	28-pin DIP IC
1	U6	LM78L05	
1	U7	74AC08	14-pin DIP IC

Miscellaneous:

1	--	Si5351 board	Supplied with 8-pin header strip. See group 3.
1	SW1	pushbutton switch	
2	--	1/8" plastic spacer	Used with pushbutton sw
1	SW2	rotary encoder w/ switch	
5	X1-X5	5.185 MHz HC-49/US crystal	Matched set
1	X6	16 MHz HC-49/US crystal	
1	--	#24 magnet wire	18" (45 cm) length
1	--	#21 magnet wire	Dave B. will supply
3	--	Knobs	
4	--	1/4" #4 spacer	
4	--	5/8" #4 spacer, threaded	
8	--	#4-40 x 1/2" machine screw, pan head	