

SoftRock RX Ensemble II HF Receiver Kit

Bill of Material

Circuit Board

	1	SoftRock RX Ensemble II Circuit Board
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ICs/Firmware

	1	Si570
	1	78L05
	3	FST3253
	1	LT6231
	1	74AC74
	1	LP2992AIM5-3.3 (LFEA)
	1	ATTiny85 programmed with v15.15 code
	1	8-pin DIP socket
	2	LTV817

Capacitors

	5	4.7 μ F 10%
	2	1500pF 5%
	2	100pF 5%
	2	180pF 5%
	4	390pF 5%
	3	680pF 5%
	4	0.047 μ F 10%
	1	10,000pF 10%
	1	330pF 5%
	20	0.1 μ F (1206 SMT -- ink mark on back of strip)

Resistors/Diodes

	1	1N4003
	2	BZX55C3V3
	3	68Ω 1/6W 5%
	1	1.0MΩ 1/6W 5%
	2	4.99kΩ 1/4W 1%
	5	10kΩ 1/6W 5%
	12	2.2kΩ 1/6W 5%
	4	10.0Ω 1/4W 1%
	4	120Ω 1/6W 5%
	4	75Ω 1/6W 5%

Connectors

	1	BNC jack
	1	2.5mm power jack
	1	2.5mm power plug
	1	USB jack
	1	3.5mm audio jack

Hardware

	4	#4 nylon washer
	4	4-40x1/2in. screw
	4	4-40 hex nut
	4	#4x1/4in. nylon spacer

Cores

	6	T30-2 core (0.3inch OD, red)
	6	T25-6 core (0.25inch OD, yellow)
	3	BN-43-2402 binocular core

Wire

	≈15ft.	#27 magnet wire
	≈4ft.	#30 magnet wire