

An 80-m CW Valve Transceiver

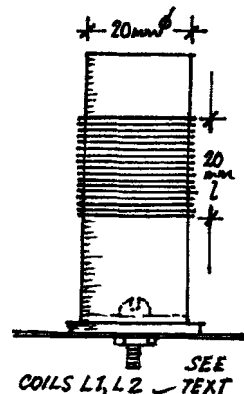
Igor Grigorov, RK3ZK

Credit Line: SPRAT # 82. 1995.pp. 22-23

It is possible to build this transceiver in one evening using surplus parts. It has a sensitivity of near 5-microV and output power on 3.5- 3.6- MHz near 1-Wtts. The RX/TX changes the function of V3, the Mixer and Power Amplifier. L3 provides tuning in the transmit and receive modes.

I used an old cabinet from a valve broadcast receiver, also using its power supply and audio transformer.

If L1, L2, and L3 are tuned for the band, the transceiver should work straight away.



Parts:

- RL1 and RL2: Old Telephone (60- V) Relays
- TR1: Audio Transformer from old broadcast receiver
- L1: 40 turns 0.5mm wire on 20-mm former, winding length 20mm
- L2: 20 turns 0.7mm wire on 20mm former, winding length 20mm
- L1 and L2 were wound on old plastic shotgun cartridges
- L3: 17 turns 1mm wire on 50mm former, winding length 50mm
- L3 was wound on a glass
- RFC1: 400 turns 0.2mm wire on an old plastic pencil 8mm diameter

POSSIBLE ALTERNATIVE VALVES -					
6H2Π		6X2Π		6H6Π	
B9A	I.O.	B7G	B7G	B9A	I.O.
12AX7	6N7	6AK5	6J6	12AU7	6SN7
ECC83	6SC7	6AM6	-	12AU7	-
-	-	6AU6	-	ECC81	-
-	-	-	-	ECC82	-
V1		V2		V3	

