

Simple ATU

Credit Line: Forum CQHAM.RU

Note from I.G.: I found schematic of the tuner on infinite pages at the ham forum at www.cqham.ru. The design was present by amateur with alliance Svoy- 3000. Of course I have decided make and test the ATU. It was not the same ATU that shown in the schematic because for inductors I used plastic cans from Drug Store that had a little different diameter and L1 and L4 were wounded directly above L2 and L4.

My test showed that the tuner worked very well! I recommend use L5 with short antennas on 160 and 80 meters- matching much better then without this one. (Svoy do not use L5 in his practical design).

It is very simple tuner that without complicated switching could work at all amateur HF Band- from 160- to 10 meters. I tested this tuner with my ICOM – 718 with horizontal low height wires antenna in 5 and 10 meter length (it was used a counterpoise in 10 meters length) feeding by 5 meter length of coaxial cable and with different resistive loads.

I did not measured efficiency of the tuner by measuring means. However I measured field strength by MFJ FSM MFJ- 801. I measured field strength from antennas matching by the home made tuner and matching by the MFJ- 941 VERSA TUNER. It was occurred that the tuner worked almost similar to MFJ- 941 VERSA TUNER. I used usual air capacitors from an old tube receiver. Those ones began arced already at 50- Wt power in. So for high power it needs to use capacitors with big gap between plates.

Figures and pictures at the articles made by **Svoy- 3000**. On the schematic: first column- numbers of turns; second column- diameter of the wire in mm. L1 connected to antenna for 10- 30 MHz. L4 connected to antenna for 1.8- 11 MHz. Upper plate C3 is going to transceiver output.



Svoy - 3000

