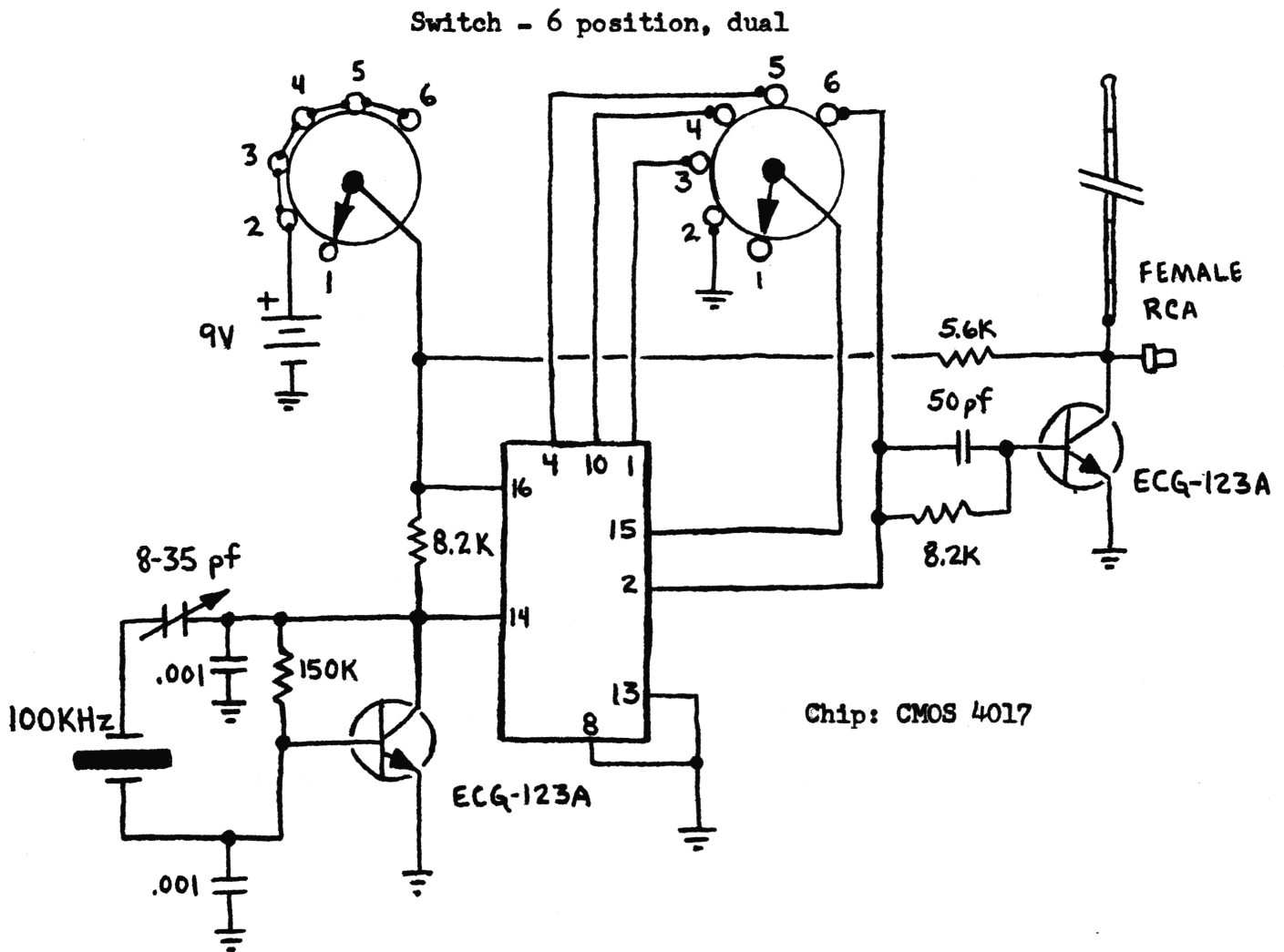


CUSTOM FREQUENCY STANDARD

This handy and accurate little frequency standard can be made very cheaply. I used "junk box" parts for most of the components. The crystal was 'appropriated' years before when I did some R & D work. (Seems they would grind up the crystals that didn't pass MIL SPEC, and I turned out to be the grinder-upper for about a month). The antenna feature is an 'extra'; not necessary; scrounged from old R/S weather cube. There are no critical parts, and can be breadboarded at this frequency range. The only calibration point is at Pin 14 of chip, adjust the variable cap. for exact frequency.



Custom Frequency Standard...Cont.

With the 100KC Xtal, frequency outputs are: Pos. 1 - Off
2 - 10KHz
3 - 20KHz
4 - 25KHz
5 - 50KHz
6 - 100KHz

The chip is CMOS, so suggest using a socket. Decade Counter/Divider, R/S 276-2417 (\$1.50). With the paper work provided can use other output pins - for other frequencies. Also can switch crystal to the limit of transistors and chip. The limit is up to you.... Note: All grounds are D.C.; not case! The only thing at case ground is the RCA female jack. Experiment with it, this is one unit that is very useful..... The original unit I built all fit into a 3 1/4 x 2 1/8 x 4" mtl. box-R/S 270-251.

* * * Note: If enough request-will try to have a different
QUALITY piece of test equipment per issue * * * * *

