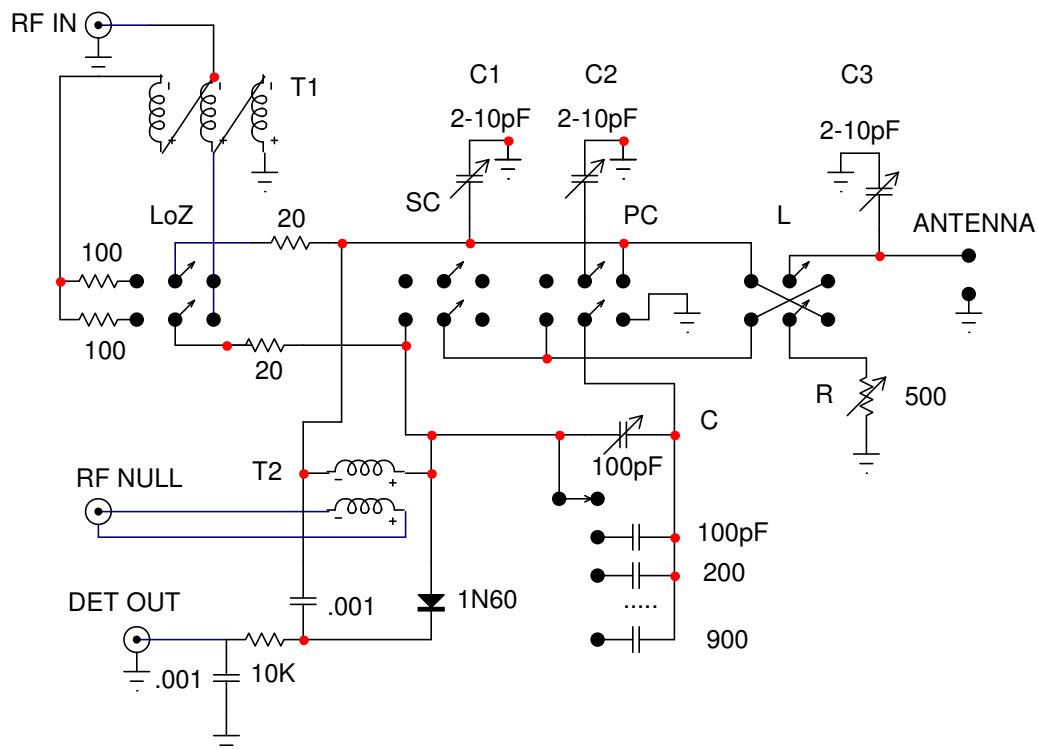


ANTENNA ANALYZER HF-6M



- T1 3T trifilar on grey T37 torroid from hamfest. Very hi u.
 T2 10T pri 1T sec on same type core as T1.
 C1 Use to trim null w/ all switches off. May have to move to other leg.
 C2 Use to trim null w/ PC pressed, C set to 0.
 C3 Use to trim null w/ L pressed. Interacts w/ C1 & C2.

- RF IN Approx 1-10dbM from 1.8 to 54 MHz.
 RF NULL Optional receiver connection.
 DC OUT Detector for null - sees a few tenths V down to < 1mV.

- DPDT switches shown in operated position
 Low Z Use for antenna $Z < 50\Omega$.
 SC Series C in reference (R) leg
 PC Parallel C in reference leg
 L Reference and unknown (antenna) are swapped to measure inductance.
 This places C in series with a series L (SC+L pressed) or
 C in parallel L (PC+L pressed)
 Use the LC resonance graph to convert the indicated C to L

This bridge seems much less susceptible to strong MW and SW broadcast signals. It is probably due to the lower circuit by not having the fixed 180pF or so series cap typically used to allow measurement of all 4 possibilities with no switching.

Keeping everything small improves operation at higher frequencies.
 Isolate RF IN and DC OUT by wrapping coax around a torroid for balanced antennas.