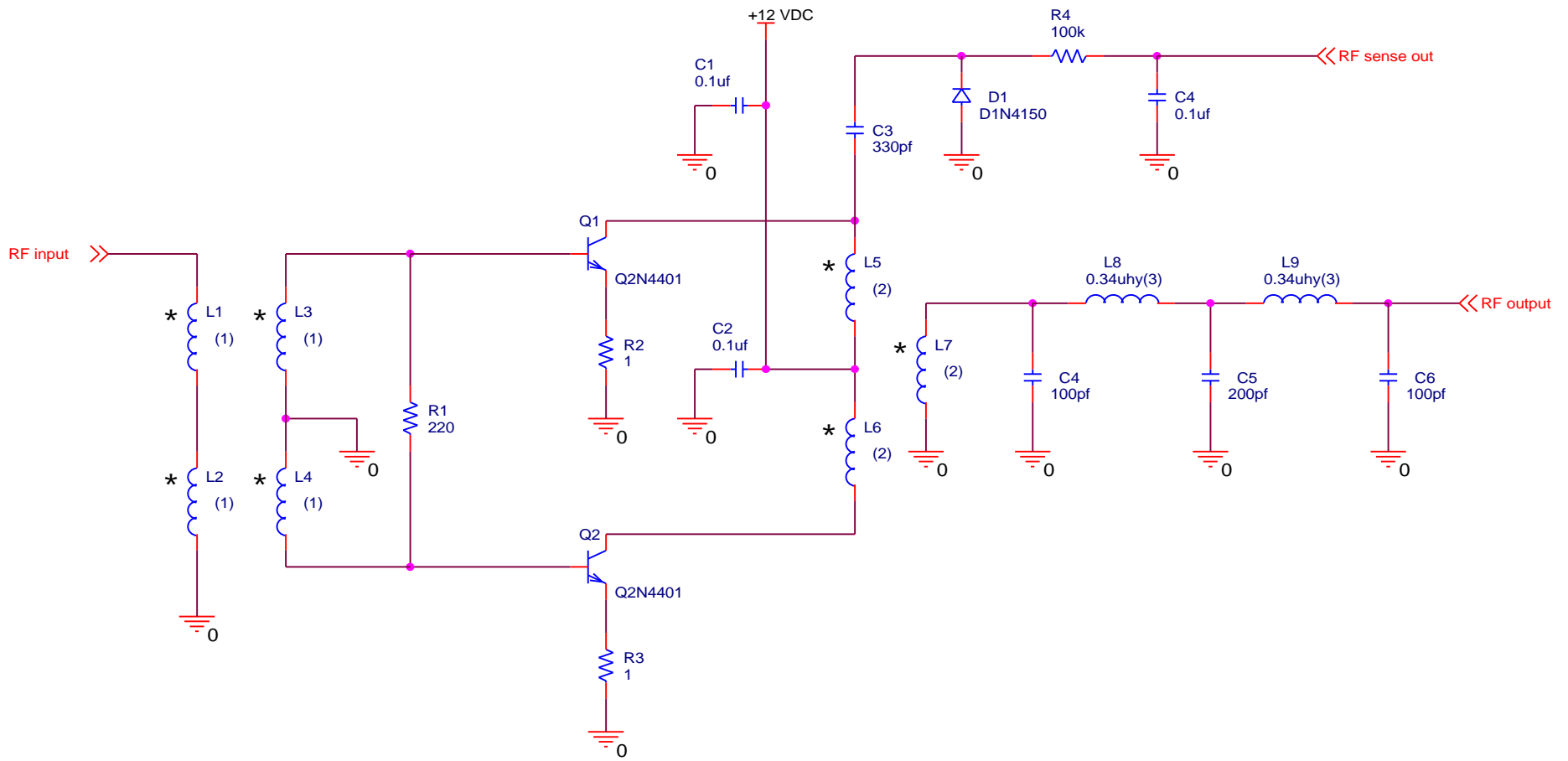


Notes:

- (1) C4 may have to be adjusted for oscillation although the tuning is not critical.
  - (2) RF choke is 8 turns #26 on small ferrite core
  - (3) L1 is 18 turns #26 on T44-10 powdered iron toroid
  - (4) Adjust R15 value to control drive to Q5 and power output level
  - (5) L2, L3 are 5 bifilar turns #26 on FT37-43 ferrite toroid core
  - (6) L4 and L5 are 9 turns #26 on T37-2 powdered iron toroid core
- Crystal is 3rd overtone operating in 28.2 to 28.3 MHz band.  
 Exciter can output approximately 100 milliwatts into 50 ohm load.  
 Supply voltage should be 12 to 12.5 (not 13.8!)

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Notes:

(1) L1, L2, L3, L4 5 turns #26 quadrifilar on FT37-43 ferrite toroid core

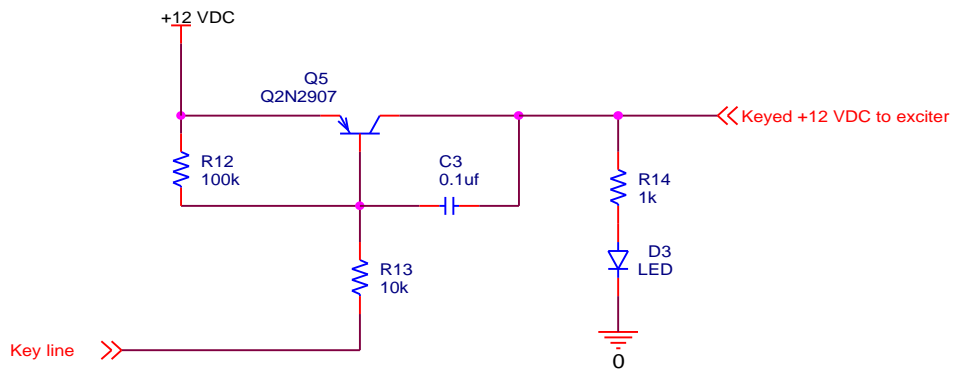
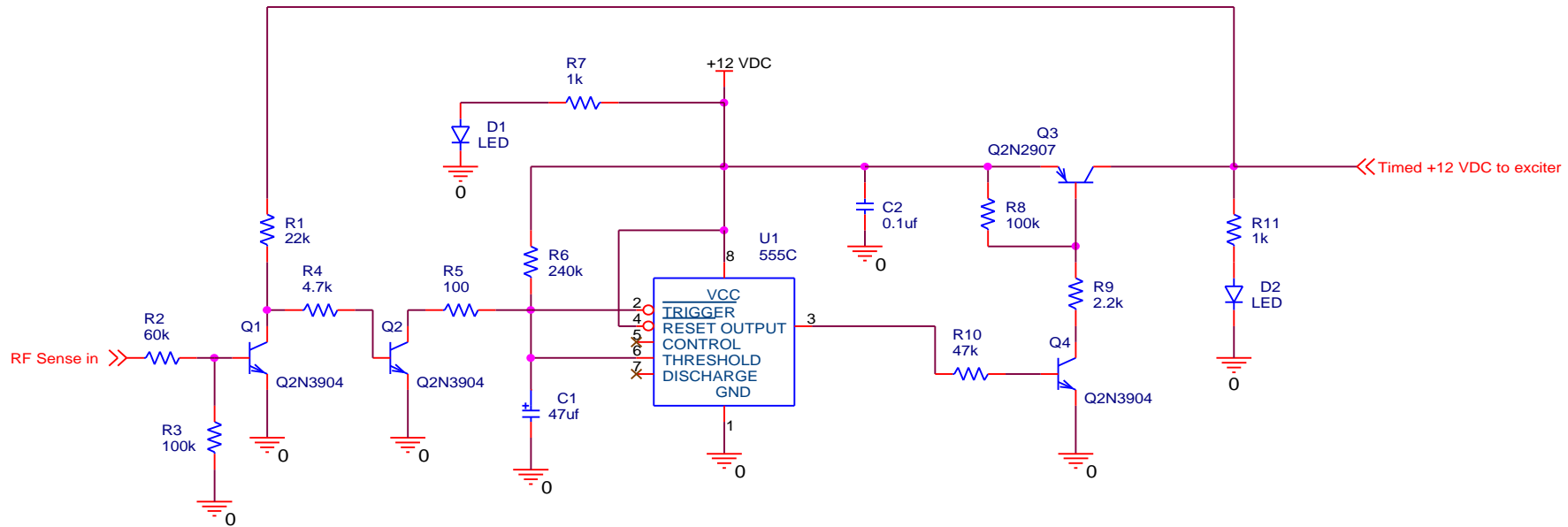
(2) L5, L6, L7 5 turns #26 trifilar on FT37-43 ferrite toroid core

(3) L8, L9 9 turns #26 on T37-2 powdered iron toroid core

Supply voltage should be 12 to 12.5 volts (not 13.8!).

Power amplifier output approximately 1 watt into 50 ohms.

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Title 10 Meter Beacon Transmitter - Control Board		
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K7NWS 10 meter beacon transmitter schematic sheets.

Page 1 is the exciter. Page 2 is the 1-watt power amplifier. Page 3 is the keyer and control circuits, including the “stuck key” timer.

These blow up well and have clear text. They were probably drawn in an earlier version of PSPICE (OrCAD?). These pictures were copied from PSPICE and pasted into MS Powerpoint charts for presentation at a meeting and printing for the beacon logbook.

These are the same pictures as are on the K7NWS web page, just not processed as much..

I believe R13 in the keyer is now a lower value due to gain problems with the transistor used for the keyer – probably 2.2k ohms (somewhere in the 4.7k to 1k range, depending on what your “key” will handle).

Drawings pulled into this MS Word document 5/23/2002 by WB7AEI