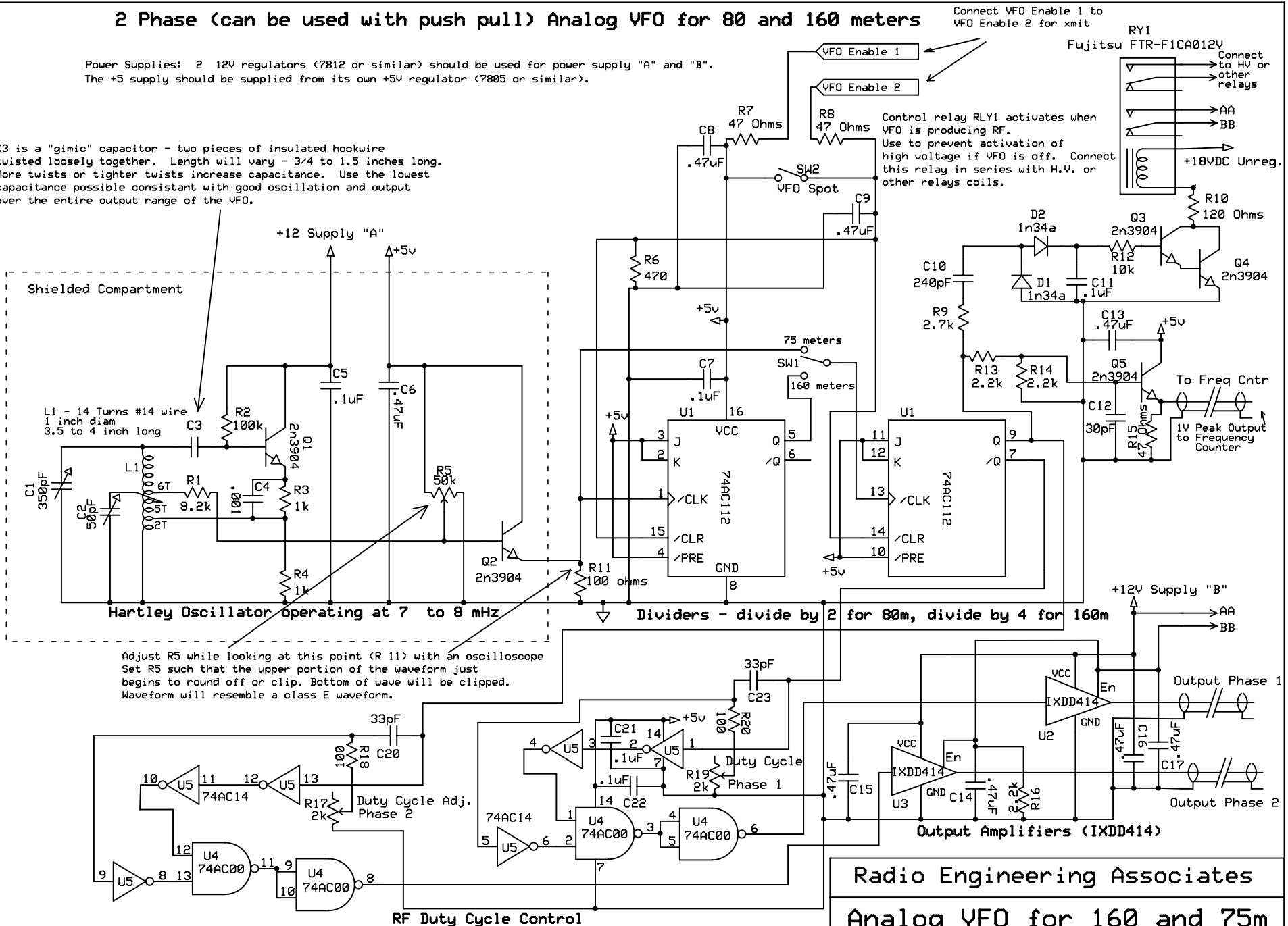


2 Phase (can be used with push pull) Analog VFO for 80 and 160 meters

Power Supplies: 2 12V regulators (7812 or similar) should be used for power supply "A" and "B". The +5 supply should be supplied from its own +5V regulator (7805 or similar).

C3 is a "gimic" capacitor - two pieces of insulated hookwire twisted loosely together. Length will vary - 3/4 to 1.5 inches long. More twists or tighter twists increase capacitance. Use the lowest capacitance possible consistent with good oscillation and output over the entire output range of the VFO.



Adjust R5 while looking at this point (R 11) with an oscilloscope Set R5 such that the upper portion of the waveform just begins to round off or clip. Bottom of wave will be clipped. Waveform will resemble a class E waveform.

Notes: This is an RF circuit. A proper ground plane must be provided under all components. Proper shielding should be provided. Short leads are important! The IXDD414 output buffers should be heat sunk. The T0220 tabs can be screwed to the chassis or PC board copper.

Radio Engineering Associates
Analog VFO for 160 and 75m

WA1QIX

Rev 2.0

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