ARRL Handbook CD

Template File

Title:Crystal Filter EvaluationChapter:12Topic:Crystal-Filter Evaluation

Template contains:

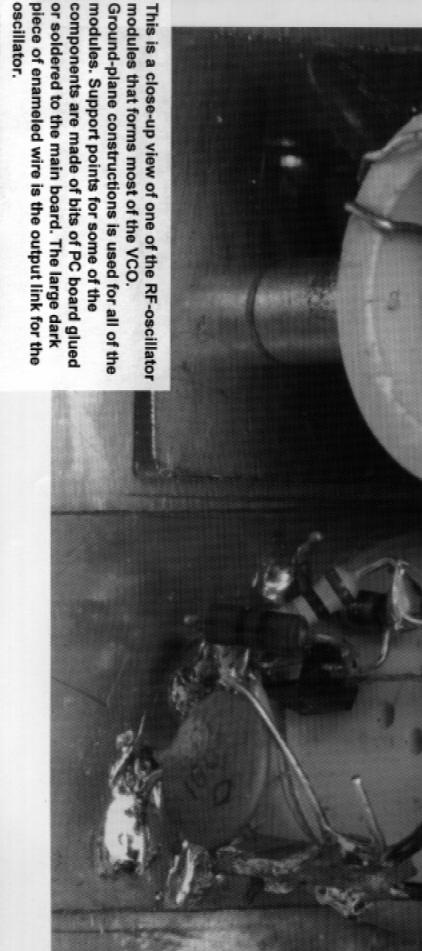
Table of VCO coil construction data.

Close-up photos of construction details.

VCO Coils

Coil	Inside diameter (inches)	Length (inches)	Turns & wire	Inductance (µH)
Large	0.85	1.1	18 t, # 28	5.32
Medium	0.85	0.55	7 t, # 22	1.35
Small	0.5	0.75	5 t, # 14	0.27

The two larger coils are wound on 3/4-inch PVC pipe and the smaller one on a 1/2-inch drill bit. Tuning coverage for each oscillator is obtained by squeezing or spreading the turns before gluing them in place. The output windings connected to A1, A2 and A3 are a single turn of #14 wire spaced off the end of the tapped coil.



any style of construction is suitable for this circuit. Although not shown here, the wide-bandwidth amplifier and detector are in this same enclosure. The deflection and sweep circuit layout follows the circuit diagram. Almost

