

A Software Controlled Radio Preselector

A Tunable Bandpass Filter Bank for the HF Bands (1.8 MHz to 30 MHz).



The SCR-Preselector prototype is packaged in a Hammond Instruments case.

Features:

- PC controlled through a graphical user interface (GUI).
- USB v2.0 compliant, for data communication with PC. Plug and Play feature.
- Tested under Windows XP and Windows Vista/2 Operating Systems (OS).
- Can perform its functions as a stand-alone unit.
- Compatible with software defined radios (SDR).
- Removes the strong signals radiated back to the antenna from quadrature mixers.
- Improves your average receiver or scanner to lead with strong signals, on the most noisy and crowded bands.
- Connected to an exciter as a tunable band pass filter, it reduces harmonics generated in the exciter.
- Complete receiver front-end for your projects.
- Joined to a VFO, the preselector can perform a tracking tuning function.

The SCR-Preselector — A First Line of Defense Against Interference and Static

The SCR-Preselector, pictured in the lead photo, is connected in series between the antenna and the receiver. Tuning to desired signal keeps the preselector bandwidth centered at the operating frequency, adding selectivity and protection to your receiver. The SCR-Preselector rejects or reduces out of band unwanted interfering signals, improves signal to noise ratio and protects against interference from strong signals like AM/FM broadcast stations. It can also be helpful in preventing interference during multi-multi contest operations.

The high linearity of the preselector is preserved thanks to a passive design that uses large toroidal cores and reliable mechanical

relays for switching functions, instead of nonlinear semiconductors that cause distortion and exhibit low tolerance against strong signals and static.

Direct sampling SDRs are protected against false images since the SCR-Preselector incorporates a low pass filter (LPF) with an enhanced stop band of more than 60 dB. This filter has the ability to provide a very sharp transition from pass band to stop band at a cut-off frequency of 30 MHz, attenuating signals in the VHF region that could mix with the sampling frequency of its analog to digital data converter.¹

The SCR-Preselector incorporates gas discharge tubes to provide safety against static and voltage transients. Further, the unused antenna input is short-circuited to ground.

Brief History

In September 2006 I attended a conference at the Whitton Amateur Radio Group, at which Jeffrey Pawlan, WA6KBL, had the kindness to give us during his European tour.² The talk was all about Software Defined Radio, and the WisRAD computer program, how it came about, how it works and where will be going in the future.

Motivated by his speech I became truly interested in SDR. I began playing around with quadrature sampling detectors, also called Tayloe detectors. This is a nice piece of radio technology. Soon I noticed that despite its excellent features, it still needs a good front-end circuit to condition signals before they reach the mixer. I focused my interest on this problem, and with the help of my old friend Xavier Junqué de Fortuny, a

software engineer, we started the job. First of all, because Xavier lives in Barcelona, Spain, and I live in London, England, we established a broadband link through the Internet, with audio/video capabilities. One year later, the SCR-Preselector was born.

Overview

The core of the SCR-Preselector is the tunable band pass filter bank, which is complemented with the necessary switching, protection, filters, amplifier and control circuitry as shown the block diagram in Figure 1 and the assembled prototype of Figure 2. The incoming signals pass through the antenna selector relay, and then go to the bypass relay. From there, the signals either bypass the preselector or enter a step attenuator that offers a selection of 0 dB, 6 dB, 12 dB or 18 dB. Those attenuation values match the standard calibration of 5 meters.

Next, the input signals enter a broadcast band (BCB) high pass filter. This is a so-called "brick-wall filter," which attenuates spurious signals from strong AM broadcast stations as much as 120 dB. Such signals are well known enemies of shortwave receivers. I have stretched the effects of this filter into the medium wavelength band. It has a very sharp slope, as Figure 3 shows. The filter has minimum attenuation of all signals at 1.8 MHz and higher frequencies, including the CW portion of the 160 m band.

At this point, the input signals reach the tunable band pass filter bank, which is arranged in five overlapping bands that are user selectable. Each filter is a classic serial tuned LC circuit, and offers narrow bandwidth with little attenuation. A set of eight switchable capacitors of 1 pF, 2 pF, 4 pF, 8 pF, 16 pF, 32 pF, 64 pF and 128 pF emulates the variable capacitor needed to tune the series resonant circuit. The control program

¹Notes appear on page 18.

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