

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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Software Defined Radio Walter H.W. Tuttlebee, 2002-03-12 Over the past few years software radio has transitioned from an esoteric academic idea to a rapidly commercialising technology that in the coming decade will revolutionise the mobile telecommunications marketplace Written for industry professionals in engineering and commercial roles as well as those in academia and research this book will provide a comprehensive context for all those already active in or entering the field Walter Tuttlebee himself a pioneer of software radio in Europe has gathered contributions from many of the acknowledged world experts in software radio leaders operating at the heart of the software radio world today who share their experience and insight into the background the present and the future evolution of the technology and the industry Contributions from North America Europe and Asia ensure a comprehensive overview of the global SDR scene The structured approach ensures that the book comprehensively addresses the key issues in the title the origins of software radio what has been and is driving its commercialisation and what is happening on the international scene The book includes a comprehensive review of the origins of software radio in the defence industry an insider's view of the origins evolution role and activities of the SDR Forum a summary of the MIT Sloan study into the drivers of global success in the mobile wireless marketplace a review of end user and mobile network operator perspectives of software radio and what the value it can offer insiders summaries of recent SDR research activities in Europe and Japan coverage of the regulatory issues associated with SDR and the current approaches being taken in North America and Europe with contributions from the regulators themselves a description of the first steps to SDR standards the ETSI MExE standard descriptions of some of the first commercial software defined radio products for both defence and commercial applications Endorsed with a foreword from Joseph Mitola III the father of software radio

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Communications Receivers: DPS, Software Radios, and Design, 3rd Edition Ulrich Rohde, Jerry Whitaker, Andrew Bateman,2000-12-06 The latest in DSP cellular and software radio design From reception basics to cutting edge software radio design

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