

## High Performance Regenerative Receiver Design

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A High-Performance Shortwave Receiver Fig 7 shows a highly sensitive and selective shortwave receiver that is easy (and fun) to operate. As with the previous circuit, this design uses a bipolar RF stage, a J FET detector and an IC audio stage. The overall perfor- mance of this circuit equals that of many superhet designs, yet it has very

High Performance Regenerative Receiver  
High Performance Regenerative Receiver The design is based on the following 6 principles: - Use of a low L/C ratio (high tuning capacity, at least 470 pF). Thisimproves the frequency stability and decreases the synchronizationphenomenon and the hand effect. - Use of an adjustable RF attenuator at the receiver input.

High Performance Regenerative Receiver Design  
High Performance Regenerative Receiver A High-Performance Shortwave Receiver Fig 7 shows a highly sensitive and selective shortwave receiver that is easy (and fun) to operate As with the previous circuit, this design uses a bipolar RF stage, a J FET detector and an IC audio stage The overall perfor- mance of this circuit equals that of many ...

[Book] High Performance Regenerative Receiver Design  
High Performance Regenerative Receiver Design There have been several popular Regen projects in recent QST's and ARRL Handbooks Look at the design process and progress; then build one!of the receivers described. By Charles Kitchin, N1TEV M any hams have tried regen- erative receivers with mixed results.

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The design is based on the following 6 principles: - Use of a low L/C ratio (high tuning capacity, at least 470 pF). This improves the frequency stability and decreases the synchronization phenomenon and the hand effect. - Use of an adjustable RF attenuator at the receiver input. This reduces the risk of receiving powerful out-of-band stations.

VERY HIGH PERFORMANCE REGENERATIVE RECEIVER  
High Performance Regenerative Receiver Design audio stage. The overall perfor- mance of this circuit equals that of many superhet designs, yet it has very High Performance Regenerative Receiver The design is based on the following 6 principles: - Use of a low L/C ratio (high tuning capacity, at least 470 pF). Thisimproves the frequency stability and Page 5/25

High Performance Regenerative Receiver Design  
The WBR isn't a (normal) regenerative detector design, and this gets overlooked sometimes. It's actually a regenerative Q-multiplier with an infinite impedance detector (IID). When the Q-multiplier is oscillating, the available signals to the IID are quite a bit stronger than when the Q-multiplier is set just below oscillation threshold, as in for AM reception.

Guest Post ▯ N6JJA's WBR-Oscar Regen Receiver ▯ Dave ...  
The basic paradign of this design is to break up the traditional oscillating detector into a separated regenerative amplifier and detector circuit. The detector is a (plate detector), where RF is fed back to the Amplifier via a partially RF-decoupled source(normally bypassed all the way for RF when used as a detector). schematics:

A High Performance Regenerative Radio | Circuit Salad  
High Performance Regenerative Receiver - Schematic Diagram & Parts Layout Designed by Charles Kitchen, N1TEV <http://www.arrl.org/files/file/Technology/tis/in...>

High Performance Regenerative Receiver - Schematic Diagram ...  
mate simple, high-performance regenera-tive receiver. As an added plus, the design virtually eliminates the negative aspects of regenerative receivers such as antenna radiation, frequency pulling, micro-phonics and hand capacitance effects. A printed circuit board is available to speed construction of this project.2 Design Overview

The WBR Receiver - philpem.me.uk  
High Performance Regenerative Receiver is shown in Fig.1. Grounded-base transistor, TR1, acts as a radio frequency (RF) amplifier. Whilst its most important function is to isolate the regenerative stage from the aerial, it also provides a useful amount of gain. Signal input is fed to the emitter (e) of TR1, and potentiometer VR1 acts as an

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With this design, no tapped coils or tickler windings are required. This design could easily be made into a multi-band radio. Extremely smooth and stable Regeneration control ▯ I adjust a DC bias point condition instead of RF Feedback to control regeneration and the performance is excellent. There is no hysteresis or abrupt transition from regeneration to oscillation.

A High Performance Regenerative Radio | Circuit Salad  
N1TEV Charles Kitchin: High performance regenerative receiver design. AASTB Steve Yates: High-performance JFET regen, tickler coil with capacitive regeneration control, filtered audio. Rolf Heine DL6ZB: one-JFET Hartley regen, paired with a one-transistor crystal QRPP TX. Burkhard Kainka: varactor-tuned BJT-only receiver, differential 2xPNP for regeneration.

Regenerative receiver projects - robos.org  
High Performance Regenerative Receiver Design itor regeneration control are unknown The regenerative circuit was used in... Regeneration introduces a negative superheterodyne receiver circuits. control of...

Regenerative Receiver for Beginners - ARRL  
High Performance Regenerative Receiver - Ham Radio Homebrew Projects. Designed by Charles Kitchen, N1TEV <http://www.arrl.org/files/file/Technology/tis/info/p...>

High Performance Regenerative Receiver - Ham Radio DIY ...  
HIGH PERFORMANCE REGENERATIVE RECEIVER by RAYMOND HAIGH three small printed circuit boards (PCBs). This enables constructors to select what they want from the design and to use tuning components that may be to hand. Many will already have suitable audio amplifiers, and not everyone will wish to adopt electronic tuning. The three printed circuit

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N1TEV published article on ARRL said the regen receiver can compete most of heterodyne receiver actually, several key point for this, 1. Fist of all, use capacitor as throttle regen control, this...

BH1RBG RF Lab - Regen II. High Performance Rig  
This web page describes a small, single-tuned circuit regenerative receiver primarily for daylight reception in the 16, 19, 22 and 25 meter international shortwave broadcast bands. A good regenerative receiver A good SSB-CW-AM regenerative receiver with a fine tuning by moving the wooden stick with a grounded piece of PCB towards the coil.