

## High Performance Regenerative Receiver Design

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### High Performance Regenerative Receiver Design

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 performance 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). This improves the frequency stability and decreases the synchronization phenomenon and the hand effect. - Use of an adjustable RF attenuator at the receiver input.

### VERY HIGH PERFORMANCE REGENERATIVE RECEIVER

HIGH PERFORMANCE REGENERATIVE RECEIVER by RAYMOND HAIGH "regeneration", the technique produces a truly dramatic increase in receiver sensitivity and selectivity. Armstrong filed his patent in October 1913, just two months before his 23rd birthday.

### www.epemag

N1TEV Charles Kitchin: High performance regenerative receiver design. AA5TB 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.

### Regenerative receiver projects - robos.org

The WBR - A Simple High Performance Regen Receiver for 40M by N1BYT EDIT (July 26th 2014) - If you're thinking of building the WBR, I strongly suggest you check out my most recent build here, which incorporates a mod suggested by LA3PNA, and a different configuration for the AF amp that I think provides nicer sounding audio.

### The WBR - A Simple High Performance Regen Receiver for 40M ...

While in college he continued to develop this technology, and developed the regenerative receiver that provided superior performance compared to the passive systems employed by all wireless stations of the day. David Sarnoff was a senior figure in the American Marconi Corporation.

### Some Recent Developments in the Art of Receiver Technology ...

The basic paradigm 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).

### A High Performance Regenerative Radio | Circuit Salad

A regenerative receiver, by contrast, could often provide adequate reception with the use of only one tube. In the 1930s the regenerative receiver was replaced by the superheterodyne circuit in commercial receivers due to the superheterodyne's superior performance and the falling cost of tubes.

### Regenerative circuit - Wikipedia

Based on the sound recording Mike provides, his receiver has plenty of gain and exhibits all the benefits of a crystal-controlled regen. Its tuning range is limited, however, and Mike used an obsolete transistor, so I was unable to duplicate it. ... 4 Kitchin, "High Performance Regenerative Receiver Design," QEX, November/December 1998, p. 24 ...

### KR1S VXO Regenerative Receiver, Page 2

A new regenerative radio receiver. A new high-performance regenerative receiver is available as a kit. Using a new regenerative detector circuit allows a good performance regarding sensitivity. It is a very unusual regenerative receiver. I see that T2 and T3 form a ring.

### A new regenerative radio receiver - The RadioBoard Forums

Regen Receiver. This regenerative detector receiver is based on Charles Kitchin's High Performance Regen Receiver. The circuit (see schematic) was modified to use a LM386 as the audio output. The cabinet/chassis is 1 inch pine. The front panel is aluminum. The top and sides are made of 1/8 inch masonite.

### Projects of W5JH

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 ... Learn More. Regenerative Receiver for Beginners. The heart of this circuit is JFET Q3, isolates the detector from the antenna, pre-.

### Regenerative Receiver for Beginners - ARRL

High Performance Regenerative Receiver - Schematic Diagram & Parts Layout Designed by Charles Kitchen, N1TEV <http://www.arrl.org/files/file/Techno...>

### High Performance Regenerative Receiver - Schematic Diagram & Parts Layout

Ray Ring's High Performance Regenerative Radio - October 2016 Tuning Devices compared. From left to right, an air variable capacitor, a polyvaricon, and a varactor. What attracted me to this circuit were the words "high performance" (although as I've discovered, a large percentage of designs promote themselves this way, but in my experience "high performance" may not fully apply ...

### Fun with Regenerative Receivers | Intellectual Curiosity

An FET version of the 1-V-1 Regenerative Receiver, designed and built by C.F ... the dramatically high performance. sorry to use so large font to express feeling. ... difficult thing arise, like mechanical design, layout, parasitic capacitance / inductor. My design is compact and short lead, but air variable capacitor is connecting via long ...

### BH1RBG RF Lab - Regen II: High Performance Rig

The regen receiver operates by introducing positive feedback into the receiver circuit. This positive feedback dramatically increases both the gain and selectivity. The RF amplifier has a feedback loop that feeds a proportion of the output back to the input so that the signals around the loop are in phase.

### **Regenerative Receiver: Regen Radio » Electronics Notes**

The regen design has the mixing, selectivity and amplification all built into the same stage, offering better possible performance ... the gain and selectivity are multiplied 1000-fold during the mixing process! (Although the gain and selectivity can drop dramatically in the presence of high RF input signals.)

### **CWTD Sept 18, 2012**

The receiver I built was the "Pipsqueak." This little gem is based on an earlier regen design by Charles Kitchen with an improved audio section designed by Paul Harden. This little receiver is almost as simple as they get. After a few hours of melting solder, I actually had a working receiver.

### **Regen Shortwave Receiver**

For me, the centerpiece of the book was a design for a simple, one-tube regenerative receiver. My desire to build such a thing knew no bounds, but a lack of money and parts made it a non-starter at that time. I became a ham in 1965 and my attention turned to more modern equipment and kits to build things, but I never got over that old regen.

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