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Receiver Design High Performance Regenerative Receiver Design

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High Performance
Regenerative Receiver -
Schematic Diagram \u0026amp;
Parts Layout

High Performance
Regenerative Receiver - Ham
Radio DIY Projects **Low**

**Voltage Regenerative
Receiver Project - Part 1**

*80m/40m 2-Band 1.5VDC
Regenerative Receiver -
3.5/7.0MHz Regen Receiver*

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~~Digital Frequency Counter For Regenerative Receiver~~

~~Freq. Counter For Regen~~

~~Receiver Charles Kitchin~~

Regenerative Receiver

single coil 3 - 30 MHz

regenerative receiver ~~6AU6~~

~~Regenerative receiver Part 1~~

Morgan Regen Part 1

Listening with an HF

regenerative receiver

~~Sawdust Super Regen 001~~ *How a Regenerative Receiver*

Works HF Indoor Loop Antenna

DIY - Simple \u0026 Easy to

Build QRP Guys K8TND

Regenerative Short Wave

Receiver Build 4K MFJ-8100

Regenerative Shortwave

Receiver AM Loop Antenna -

Very Effective - DIY Making

a Shortwave Radio (How to

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Receiver Design
make a Shortwave Radio)
~~homebrew 3 tube ham radio~~
~~receiver ARRL Simple X Retro~~
QRP Intro TRRS #0103 -
MFJ-8100 Shortwave
Regenerative Receiver Review
(Part 2 of 2) One Transistor
FM Super Regen Receiver -
One Transistor FM Radio

One Tube FM Super Regen
Receiver - 12BH7A 12V DC
RadioHome Book Review: Build
Your Own Transistor Radios:
A Hobbyists Guide to High-
Performance and Lo... A
Three Tube Regenerative
Receiver Of Unusual
Performance ~~4 tube~~
~~Regenerative receiver~~ **Valve**
Regenerative Radio
Regenerative Receiver with
no Antenna WBR Regen

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~~Receiver For 40M Single signal reception on a regenerative receiver. Is it possible? 12AU7 12VDC~~

~~Regenerative Receiver UPDATE~~

~~— 40 Meters Amateur Radio~~

~~Band Regen Receiver 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 perfor- mance of

this circuit equals that of

many superhet designs, yet

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

High Performance
Regenerative Receiver Design
High Performance

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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 performance 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 QSTs and ARRL Handbooks Look at the design

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Receiver Design
process and progress; then build one—or both—of the receivers described. By Charles Kitchin, N1TEV Many hams have tried regenerative receivers with mixed results.

High Performance
Regenerative Receiver Design
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

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attenuator at the receiver input. VERY HIGH PERFORMANCE REGENERATIVE RECEIVER

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High Performance Regenerative Receiver Design

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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
performance of this
circuit equals that of many

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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 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

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Receiver Design
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 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). schematics:

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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 regenerative receiver. As an added plus, the design virtually eliminates the negative aspects of regenerative receivers such as antenna

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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

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Receiver Design
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

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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. Burkhard Kainka: varactor-tuned BJT-only receiver, differential 2xPNP for regeneration.

Regenerative receiver
projects - robos.org
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itor regeneration control
are unknown The regenerative

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circuit was used in...

Regeneration introduces a negative superheterodyne receiver circuits. control of...

Regenerative Receiver for Beginners - ARRL

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Regenerative Receiver - Ham Radio Homebrew Projects.

Designed by Charles Kitchen, N1TEV <http://www.arrl.org/files/file/Technology/tis/info/p...>

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Regenerative Receiver - Ham Radio DIY ...

HIGH PERFORMANCE

REGENERATIVE RECEIVER by RAYMOND HAIGH three small

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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. First of all, use capacitor as throttle regen control, this...

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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.

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