## Spectrum analyser 10MHz crystal calibrator

Written by Hans Summers Friday, 02 October 2009 05:52 - Last Updated Friday, 02 October 2009 06:12

Introduction

Spectrum Analyser theory

**Construction Techniques** 

**Power Supply** 

Sweep Generator

Logarithmic Amplifier

145 MHz IF Filter

1st Mixer

2nd Mixer

8 MHz IF Filter

Low-pass Filter

**Input Attenuator** 

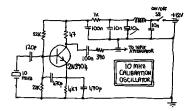
10 MHz Crystal Calibrator

Alignment and Operation

## The simple man's Spectrum Analyser 10MHz Crystal Calibrator {gallery}sacalibrator/1{/gallery}

A crystal calibrator injects a harmonic-rich signal into the analyser signal path, and is very useful for cali

The output of the crystal calibrator output is injected directly into the signal path at the output of the inpu {gallery}sacalibrator/2{/gallery}



The calibrator is built into a small box fixed to the back of the input module. One reason for doing this rather than building a separate module was that I was starting to run out of SMA connectors. I wanted to keep a few spare for possible future enhancements.