

Principle of Band Spectrum Analyzer



Overview

A spectrum analyzer is a wide band, very sensitive receiver. It works on the principle of "super-heterodyne receiver" to convert higher frequencies (normally ranging up to several 10s of GHz) to measurable quantities. The primary use is to measure the power of the spectrum of known and unknown signals. Most spectrum analyzers automate certain power versus frequency type measurements, like AM modulation depth or. Spectrum analyzers are one of the important testings which are used to measure frequencies and many other parameters. Characteristics When the signal and local oscillator are added at the mixer input, the suitable input level is the distortion level specification that doesn't influence the measurement. If you are designing, manufacturing, or doing field service/repair of electrical devices or systems, you need a tool that will help you analyze the electrical signals that are passing through or being transmitted by your system or device. Some typical applications are: testing of optical systems, for example wavelength division multiplexing.



Article Content

Optical Spectrum Analyzers

Optical spectrum analyzers use different principles like diffraction gratings or interferometry to measure optical spectra.

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