

Real Time Mm-Wave Frequency Analyzers up to 180 GHz

- High performance
- Real time measurement
- GPIB control

Applications

- Gyrotron frequency measurement
- Plasma diagnostics

Description

- Original Software
- Full waveguide frequency operation
- Time window analyze 10ms



V, W, F or D band

operation bandwidth / 4096

4-16.5

0.0024

built-in

1 ppm

0 to 5

1 to 1000

10

When millimeter-wave applications came into many domains of human activity, a need for precise measurements of signal frequency spectrum has become critical. This need is quite understandable when, for example, it concerns to exploring extraterrestrial radio-sources or micro/mm-wave background emission in radio-astronomy, or measuring chemical composition of the atmosphere through the molecular emission of different its components, plasma diagnostics or many military applications. Moreover, in some cases the spectrum measurements have to be implemented in the real time scale. For example, the high temperature plasma physics research is just the case because of short plasma life time in experimental devices and poor plasma parameter reproducibility from discharge to discharge; also it is important for plasma feedback control purposes. As well, the real time spectrum measurements are very needed in electronic warfare applications, such as object recognizing or electronic countermeasures to millimeter-wave weapons. However, real time broad band analyzers with direct frequency spectrum measuring continue to be a rare bird in catalogues of leading world manufacturers of mm-wave products.

Common specifications

- Operation frequency range, GHz
- IF Bandwidth, MHz
- Basic frequency resolution, MHz
- Minimum time of the spectrum analysis, ms
- Minimum time of single frequency measurement, ms
- Power of the input signal, mW
- Quartz Calibrator Frequencies
- Calibrator Stability
- Voltage of the output video signal, V
- Input waveguide
- Input waveguide flange
- Supply

Software short screens.



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standard according to frequency

standard UG- series

100-240V AC