

Thermally Stable RF Power Sensor

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The LB5944A power sensor with 1 MHz to 44 GHz frequency coverage and 86 dB of dynamic range. Options to 50 GHz. No drift technology makes it ideal for ATE applications.

Thermal Stability:

The LB5944A's patented zero and thermal processes eliminate drift associated with high sensitivity detection technology. The sensor remains stable over its entire operating temperature range of 0°C to +55°C. Uncertainty is specified over the entire operating temperature range and over the full measurement range with no user or automatic zeroing / calibration. Unlike competitive sensors with internal zeroing and calibration features, the sensor is aware of the conditions around its noise floor and constantly adjusts itself. This eliminates interruption of measurements for zeroing,

Not affected by signal modulation:

The multi-path sensor utilizes diodes operating in square law and makes measurement's similar to thermal sensors, but much faster and of a much greater dynamic range. The signal is accurately measured regardless of the modulation content, for example a signal with 300 MHz bandwidth content is accurately measured. The sensor's accuracy, dynamic range and speed make it ideal for a wide variety of applications.

Software and Connectivity:

The sensor is shipped with a full complement of software including an easy to use application that supports multiple sensors can be used to implement a full array of triggering features. To aid system developers, an Interactive IO program is provided. In addition to these tools, LadyBug provides support code to help developers get started quickly. The LB5944A utilizes an advanced composite USB interface and enumerates as both a USB HID device and a USBTMC device.

