Watson

High speed RF Power Sensor

Features:

- up to 6 GHz
- wide dynamic range
- test of power and timing parameters
- test over periods up to seconds
- conducted or radiated measurements
- meets latest ERM standards like ETSI EN 300 328 v1.8.1 and many more

New ETSI EN 300 328 v 1.8.1 is now published. The new standard requires test of RF power with a sampling rate of 1 MSample/s. Challenging for most existing power measurement systems available on the market. Watson family of high speed power sensors make a different approach by turning an Oscilloscope into a very fast peak power analyzer system with up to 4 channels. Such a measurement system is a powerful tool that provides complete and accurate characterizations of today's complex pulsed signals. Tests may be performed as conducted or radiated measurement. It is possible to perform measurements like pulse width, pulse period, average peak power, peak power, duty cycle, pulse top and pulse bottom, overshoot and average power.
We recommend PicoScope 4424 and dedicated Picoscope Software that can be set for dBm instead of mV for the y-axis. Full calibration data is available for each sensor that can be used to correct the measurements. The sensors are powered independently and can be used on any instrument having BNC 1MΩ inputs and sufficient memory.

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Datasheet

This datasheet supersedes all previously published material.
Specifications that are defined as typical are not guaranteed and are published as general information to the user. Note that specifications are subject to change without notice.

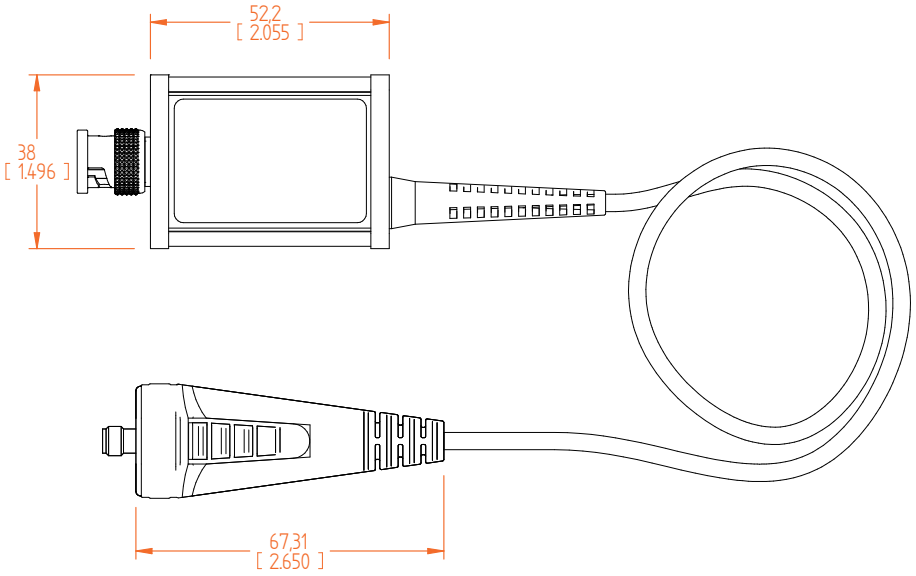
Electrical specifications	Watson3000	Watson6000
Frequency range	60 MHz - 3.0 GHz	60 MHz - 6.0 GHz
Dynamic range	55 dB	55 dB
Maximum input power	15 dBm	15 dBm

Electrical characteristics

Input impedance of the probe	50 Ω	50 Ω
Input coupling of the measuring instrument	1 MΩ DC	1 MΩ DC

Mechanical characteristics

Weight (probe head + interface)	14 g + 100 g	14 g + 100 g
Cable length	1.3 m	1.3 m
Probe input socket	SMA (female)	SMA (female)
Coupling to instrument	BNC (male)	BNC (male)



*) Units in millimeters [inch].

Scope of Delivery Watson3000 & Watson6000

- Power Sensor
- Power Supply
- Manual
- Calibration Data

Since the Watson RF Power Sensor is still in the state of pre-series manufacturing, order numbers, model variants and pricing is to be anounced in the future. Please contact our sales department for more information on availabilty, model variants and pricing of the Watson.

Manufacturer

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