

GIGA-TRONICS

8541C

The Giga-tronics 8541C is a single-input universal power meter from the 8540C Series, designed for high-throughput measurement of CW, peak, and true average power in complex modulated signals. It features an advanced internal power sweep calibrator with an embedded thermistor, allowing for exceptional accuracy over a wide dynamic range when used with Giga-tronics 80000 series sensors.

SPECIFICATIONS

General

Interfaces	GPIB
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General Specifications

Model Type	Single Input Power Meter
Number of Channels	1
Compatible Sensor Series	80300A, 80350A, 80400A, 80600A Series
Measurement Modes	CW, Peak, True Average

Frequency & Power Range

Single Sensor Dynamic Range	Up to 90 dB (sensor dependent)
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Internal Power Reference Oscillator

Reference Frequency	50 MHz
Reference Power Level	0.0 dBm (1.0 mW)

Performance & Speed

Measurement Rate (Maximum)	Up to 500 readings per second over GPIB (with 80300A Series)
Modulation Bandwidth (80400A Series)	Up to 40 kHz
Modulation Bandwidth (80600A Series)	Up to 1.5 MHz

Connectivity & Interfaces

Remote Programming Interface	GPIB
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Inputs & Outputs

Reference Output Connector	Type-N (female), 50 Ω
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TECHNOLOGY

RF/Microwave Power Measurement

APPLICATIONS

High-volume manufacturing, EW, radar, and communication systems testing

