BOONTON ELECTRONICS

57006

The Boonton Electronics 57006 is a high-performance USB peak power sensor designed for fast, accurate RF power measurements. Operating from 50 MHz to 6 GHz, it is ideal for design, manufacturing, and maintenance of modern wireless communication systems.

SPECIFICATIONS

General

Interfaces	USB 2.0

Physical

Power Supply	USB bus powered (5 VDC, < 500 mA)
Operating Temperature	0 °C to 50 °C °C
Dimensions (W×H×D)	43 mm × 34 mm × 104 mm mm
Weight	0.23 kg kg

Measurement Ranges & Power Specifications

Frequency Range Minimum	50 MHz
Frequency Range Maximum	6 GHz
Power Measurement Range Minimum	-50 dBm (average), -40 dBm (peak)
Power Measurement Range Maximum	+20 dBm
Maximum Continuous Input Power	+23 dBm
Maximum Peak Input Power	+30 dBm (< 1 µs pulse)

Sensor Technology & Architecture

Sensor Detection Type	Dual-diode
Video Bandwidth	70 MHz
Rise Time	< 15 ns
Measurement Modes Supported	Peak, Average, Pulse

RF Port Characteristics

Input Impedance	50 Ω
RF Connector Type	Type N
Connector Sex	Male
Maximum SWR (50 MHz - 2 GHz)	1.15
Maximum SWR (2 GHz - 6 GHz)	1.20

Connectivity & Host Interfaces

Host Interface Type	USB 2.0 (High Speed)
Interface Connector Type	USB Type B
Power Consumption	< 2.5 W
Current Draw	< 500 mA
Software Compatibility	Boonton Power Analyzer Software, API (LabVIEW, IVI-C, IVI-COM)

Environmental

Storage Temperature Range	-40 °C to +75 °C

Maintenance

Calibration Cycle	1 year

Performance

CW Power Range	-50 to +20 dBm
Peak Power Range	-40 to +20 dBm

Inputs & Outputs

Trigger Connector	SMB

Interfaces

USB Speed	USB 2.0 High Speed

TECHNOLOGY

Dual-diode peak power sensor

APPLICATIONS

RF and microwave power measurements

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.