

GIGA-TRONICS

80301A

The Giga-tronics 80301A is a high-performance Continuous Wave (CW) diode power sensor designed for precise RF and microwave power measurements. Operating across a wide frequency range from 10 MHz to 18 GHz, this sensor offers a broad dynamic range and excellent VSWR characteristics, making it compatible with Giga-tronics' industry-standard power meters.

SPECIFICATIONS

General

Interfaces	Proprietary sensor cable connection to compatible Giga-tronics power meters
Sensor Type	CW Power Sensor

Physical

Power Supply	Powered directly via the host Giga-tronics power meter
Operating Temperature	0 to 50 °C °C

Measurement Specifications

Frequency Range	10 MHz to 18 GHz
Power Measurement Range	-70 dBm to +20 dBm
Maximum Input Power (Continuous Wave)	+23 dBm (200 mW)
Maximum Input Power (Damage Level)	+23 dBm (200 mW)
VSWR (10 MHz to 2 GHz)	1.12
VSWR (2 GHz to 12.4 GHz)	1.22
VSWR (12.4 GHz to 18 GHz)	1.37

Physical & Interface Specifications

RF Connector Type	Type N (male)
RF Connector Impedance	50 Ω

Calibration & Accuracy

Internal Calibration EEPROM	Integrated EEPROM containing factory calibration factors
Zeroing and Calibration	Automatic via host power meter control

Measurement Performance

CW Power Measurement Range	-70 to +20 dBm
Dynamic Range (CW)	90 dB

TECHNOLOGY

Diode Power Sensor

APPLICATIONS

RF and microwave power measurement

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