

KEYSIGHT TECHNOLOGIES (AGILENT HP)

53150A

The Keysight (formerly Agilent / HP) 53150A is a portable, ultra-wideband CW microwave frequency counter and power meter. Designed for field and bench use, it features a single-input connector covering the entire 50 MHz to 20 GHz range, and provides simultaneous frequency and power measurements.

SPECIFICATIONS

General

Interfaces	GPIB, RS-232
Display	LCD with analog peaking indicator
Number of Channels	2

Physical

Power Supply	AC line; optional battery operation
Operating Temperature	0 to +55 °C
Dimensions (W×H×D)	213 x 88.5 x 300 mm
Weight	4.0 kg (without battery) / 5.8 kg (with battery option) kg

Microwave Input Characteristics

Frequency Range	50 MHz to 20 GHz
Input Configuration	Ultra-wideband, single input
Supported Signal Type	CW (Continuous Wave)

Measurement and Display Parameters

Measurement Modes	Simultaneous frequency and power
Peaking Indicator	Analog peaking indicator

Interfaces and Connectivity

Remote Control Interfaces	GPIB and RS-232 standard
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Timebase and Reference

Timebase Options	Standard, optional oven timebase
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Power Requirements

Battery Option Type	Optional battery operation
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Physical Characteristics

Design / Form Factor	Rugged, lightweight design for field use
Carrying Case	Optional soft carrying case

Inputs

Channel 1 Frequency Range	10 Hz to 125 MHz
Channel 2 Frequency Range	50 MHz to 20 GHz
Channel 2 Maximum Operating Input	+5 dBm
Channel 2 Damage Level	+27 dBm (Peak), +25 dBm (CW)

Measurement

Resolution	1 Hz to 1 MHz (selectable)
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Timebase

Standard Timebase Aging Rate	< 1 x 10 ⁻⁷ per month
High Stability Timebase (Option 001) Aging Rate	< 5 x 10 ⁻¹⁰ per day

Environmental

Storage Temperature	-40 °C to +70 °C
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Inputs & Outputs

Channel 2 Impedance	50 Ω nominal
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Performance

Power Display Resolution	0.01 dB
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Power

Maximum Power Consumption	50 VA
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Compliance

Safety Compliance	IEC 61010-1
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TECHNOLOGY

Microwave Frequency Counter

APPLICATIONS

Frequency and 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.