

KEYSIGHT TECHNOLOGIES (AGILENT HP)

11792A

The Keysight 11792A (formerly Agilent / HP 11792A) is a high-performance sensor module designed exclusively for the 8902A measuring receiver. It integrates a thermocouple power sensor and a low-loss RF switch to enable automatic switching between high-accuracy power measurements and frequency downconversion via the 11793A microwave converter.

SPECIFICATIONS

General

Interfaces	Multi-pin sensor cable connection to HP 8902A
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Physical

Power Supply	Powered directly by the HP 8902A host receiver
Operating Temperature	0 to 55 °C °C
Weight	0.8 kg (1.75 lb) kg

RF & Power Measurement Range

Frequency Range (Standard)	50 MHz to 26.5 GHz
Frequency Range (Option 001)	50 MHz to 18.0 GHz
Power Measurement Range	-20 dBm to +20 dBm (10 µW to 100 mW)
Nominal Impedance	50 Ω

Input & RF Interface Characteristics

RF Input Connector (Standard)	3.5 mm male
RF Input Connector (Option 001)	N-type male
Input SWR (fc ≤ 1300 MHz)	<1.15
Input SWR (1300 MHz < fc ≤ 18.0 GHz)	<1.25
Input SWR (18.0 GHz < fc ≤ 26.5 GHz)	<1.40

Downconverter & Switching Specifications

Switch Life	>1,000,000 switchings
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System Compatibility & Interconnects

Compatible Measuring Receiver	HP 8902A
Compatible Converter	HP 11793A

Physical & Environmental

Storage Temperature Range	-55 °C to +75 °C
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Limits

Maximum Continuous RF Input Power	+23 dBm (200 mW)
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TECHNOLOGY

Thermocouple

APPLICATIONS

RF Power Measurement & Switching

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