

KEYSIGHT TECHNOLOGIES (AGILENT HP)

11793A

The Keysight Agilent HP 11793A microwave downconverter extends the frequency range of the HP 8902A measuring receiver. For RF signals above 1.3 GHz, it downconverts the input using an internal double-balanced mixer and an external local oscillator. For signals below 1.3 GHz, it automatically routes them directly to the input of the 8902A. An optional amplifier (Option 001) is available to boost LO signals in the 18 to 26.5 GHz range.

SPECIFICATIONS

General

Interfaces	Rear-panel control connector for direct interface and control from Agilent/HP 8902A
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Physical

Power Supply	100 / 120 / 220 / 240 VAC (+10%, -15%), 48 to 66 Hz
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	88 mm × 213 mm × 412 mm mm
Weight	6.4 kg (14.1 lb) kg

Frequency & Port Configurations

RF Input Frequency Range	100 kHz to 26.5 GHz
Downconverted Frequency Range	1.3 GHz to 26.5 GHz
Direct (Bypassed) Frequency Range	100 kHz to 1.3 GHz
LO Input Frequency Range	1.3 GHz to 26.5 GHz
RF Input Connector Type	Precision 3.5 mm (male)
LO Input Connector Type	Precision 3.5 mm (male)
IF Output Connector Type	Type-N (female)
RF Input Impedance	50 Ω nominal
LO Input Impedance	50 Ω nominal
IF Output Impedance	50 Ω nominal

Amplitude & Signal Levels

Nominal LO Drive Level	+8 dBm (standard, without amplifier)
LO Drive Level with Option 001	0 dBm minimum (18 to 26.5 GHz, utilizing internal amplifier)

Power Requirements

Line Voltage (AC)	100 / 120 / 220 / 240 VAC (+10%, -15%)
Line Frequency (AC)	48 to 66 Hz
Power Consumption	15 VA maximum (standard instrument); 25 VA maximum (with Option 001)

Physical Characteristics

Form Factor	Half-rack width, 2U rack height
Chassis Width	213 mm
Chassis Height	88 mm
Chassis Depth	412 mm
Weight (Option 001)	7.0 kg (15.4 lb)

Environmental Specifications

Storage Temperature	-55 °C to +75 °C
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Accessories & Ordering Options

Option 001	18 to 26.5 GHz internal LO amplifier
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TECHNOLOGY

RF / Microwave Frequency Conversion

APPLICATIONS

Frequency downconversion and routing for HP 8902A measuring receiver systems

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