

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8496H

The Keysight (formerly Agilent/HP) 8496H is a highly reliable programmable step attenuator operating from DC to 18 GHz. It provides 0 to 110 dB of attenuation in 10 dB steps, offering excellent repeatability and an operating life exceeding 5 million cycles per section. It is designed for precision automated testing and signal level control.

SPECIFICATIONS

Physical

Operating Temperature	0 to +55 °C
Weight	425 g (15 oz) kg

General RF Specifications

Frequency Range	DC to 18 GHz
Attenuation Range	0 to 110 dB
Attenuation Step Size	10 dB
Nominal Impedance	50 Ω
Maximum RF Input Power (Average)	1 W
Maximum RF Input Power (Peak)	100 W

RF Performance: Insertion Loss & VSWR

Insertion Loss (0 dB state)	0.6 dB + 0.09 dB/GHz
Maximum VSWR (DC to 8 GHz)	1.5:1
Maximum VSWR (8 to 12.4 GHz)	1.6:1
Maximum VSWR (12.4 to 18 GHz)	1.9:1

Attenuation Accuracy & Repeatability

Attenuation Repeatability (Typical)	0.01 dB
Attenuation Repeatability (Maximum)	0.03 dB

Switching & Drive Specifications

Switching Speed (Maximum)	20 ms (including contact settling)
Operating Life (Minimum Cycles)	5,000,000 cycles per section

Physical & Mechanical Specifications

RF Connector Options	Type-N (f), SMA (f), or APC-7
----------------------	-------------------------------

Options & Configurations

Calibration Documentation Options	Option UK6 (NIST traceable data)
-----------------------------------	----------------------------------

Power & Control

Drive Voltage Options	5 Vdc (Option 011), 15 Vdc (Option 015), or 24 Vdc (Option 024)
-----------------------	---

Configuration

Number of Attenuator Sections	4
Attenuator Section Values	10 dB, 20 dB, 40 dB, 40 dB

Control & Switching

Drive Pulse Width (Minimum)	20 ms
-----------------------------	-------

TECHNOLOGY

RF / Microwave

APPLICATIONS

Signal Level Control / Automated Testing

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