

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8494H

The Keysight (Agilent/HP) 8494H is a programmable step attenuator operating from DC to 18 GHz. It provides an attenuation range of 0 to 11 dB in 1 dB steps, featuring high repeatability of 0.03 dB maximum and a long operating life of over 5 million cycles per section. It is designed for applications requiring precise RF attenuation control and high reliability in automated test environments.

SPECIFICATIONS

General Specifications

Attenuation Range	0 to 11 dB
Step Size	1 dB
Actuation Method	Programmable

RF Specifications

Frequency Range	DC to 18 GHz
Insertion Loss (0 dB position)	0.6 dB + 0.09 dB/GHz
Maximum VSWR	1.5 (DC to 8 GHz); 1.6 (8 to 12.4 GHz); 1.9 (12.4 to 18 GHz)
Attenuation Repeatability	0.03 dB maximum (0.01 dB typical)
Maximum Average Input Power	1 W
Maximum Peak Input Power	100 W
Nominal Impedance	50 Ω

Actuator and Drive Characteristics

Operating Life (cycles)	> 5 million cycles per section
Switching Speed / Settling Time	20 ms maximum (including contact settling)

Connectors and Interfaces

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

Power & Control

Drive Voltage	24 VDC nominal (5 VDC and 15 VDC by option)
---------------	---

TECHNOLOGY

RF / Microwave

APPLICATIONS

Test & 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.