

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8494A

The Keysight (formerly Agilent / HP) 8494A is a precision manual step attenuator operating from DC to 4 GHz. It provides up to 11 dB of attenuation in 1 dB steps and offers exceptional reliability with an operating life exceeding 5 million cycles per section. It is designed for RF and microwave test systems requiring high accuracy and a very high attenuation repeatability of 0.03 dB maximum.

SPECIFICATIONS

Physical

Operating Temperature	0 to 55 °C
Weight	0.425 kg

General Characteristics

Actuation Method	Manual
Frequency Range	DC to 4 GHz

Attenuation Specifications

Attenuation Range	0 to 11 dB
Attenuation Step Size	1 dB
Insertion Loss (at 0 dB)	0.6 dB + 0.09 dB/GHz
Attenuation Repeatability	0.03 dB max (0.01 dB typical)

Signal Integrity & Power Handling

Maximum SWR	1.5
Maximum Average Input Power	1 W
Maximum Peak Input Power	100 W

Drive & Switching Specifications

Operating Life (Switching Cycles)	> 5,000,000 cycles per section
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Mechanical & Physical Specifications

RF Connector Type	Type-N (f), SMA (f), or APC-7 (option dependent)
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Performance

Impedance	50 Ω
Directionality	Bi-directional

General

Attenuator Sections	4 sections (1, 2, 4, 4 dB)
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Environmental

Storage Temperature	-40 to 75 °C
Operating Humidity	Up to 95% relative humidity to 40 °C
Shock (Non-operating)	50 G, 11 ms, half-sine

TECHNOLOGY

RF / Microwave

APPLICATIONS

Signal Attenuation

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