

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8496B

The Keysight (Agilent HP) 8496B is a manual coaxial step attenuator operating from DC to 18 GHz. It offers an attenuation range of 0 to 110 dB in 10 dB steps, providing high repeatability and a mechanical operating life of over 5 million cycles per section. Designed for precise signal level control in RF and microwave applications, it features a choice of standard 50-ohm RF connectors.

SPECIFICATIONS

Physical

Operating Temperature	0 to +55 °C
Weight	0.425 kg
Number of Attenuator Sections	4 (10, 20, 40, 40 dB)

General Specifications

Frequency Range	DC to 18 GHz
Attenuation Range	0 to 110 dB
Step Size	10 dB
Characteristic Impedance	50 Ω

RF Performance

Insertion Loss (at 0 dB)	0.6 dB + 0.09 dB/GHz
Maximum VSWR (DC to 8 GHz)	1.5
Maximum VSWR (8 to 12.4 GHz)	1.6
Maximum VSWR (12.4 to 18 GHz)	1.9
Repeatability	0.03 dB maximum (typically 0.01 dB)
Maximum Average RF Input Power	1 W
Maximum Peak RF Input Power	100 W

Switching Characteristics

Operating Life (Switching Cycles)	> 5 million cycles per section
Switching Mechanism	Manual

Mechanical Specifications

RF Connector Type	Choice of Type-N female, SMA female, or APC-7
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Options and Configurations

Calibration Documentation	NIST traceable data (SWR and attenuation) available as Option 890
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Control

Control	Manual (Rotary Dial)
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TECHNOLOGY

Coaxial

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.