

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8496G

The Keysight (Agilent/HP) 8496G is a programmable DC to 4 GHz step attenuator offering an attenuation range of 0 to 110 dB in 10 dB steps. It features highly reliable precision gold-plated leaf springs, ensuring exceptional repeatability and an operating life exceeding 5 million cycles. With a switching time of 20 ms, it is well-suited for high-speed automated test environments and RF signal routing.

SPECIFICATIONS

Physical

Operating Temperature	0 to +55 °C
Weight	0.425 kg

RF Specifications

Frequency Range	DC to 4 GHz
Attenuation Range	0 to 110 dB
Attenuation Step Size	10 dB
Impedance	50 Ω
Insertion Loss (at 0 dB)	0.6 dB + 0.09 dB/GHz
Maximum VSWR	1.5

Attenuation Accuracy

Attenuation Repeatability	0.03 dB maximum (typically 0.01 dB)
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Power Ratings

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

Electromechanical & Control Specifications

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

Connectors & Interfaces

RF Connector Type	Type-N female, SMA female, or APC-7 (option dependent)
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Options & Accessories

Calibration Data	NIST traceable data for SWR and attenuation (Option 890)
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Control & Power

Solenoid Drive Voltage	24 VDC (Standard), 15 VDC (Option 015), or 5 VDC (Option 011)
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Environmental

Storage Temperature	-40 °C to +75 °C
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Design & Construction

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

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.