

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8494G

The Keysight (formerly Agilent/HP) 8494G is a programmable step attenuator operating from dc to 4 GHz. It provides an attenuation range of 0 to 11 dB in 1 dB steps, offering exceptional repeatability (typically 0.01 dB, 0.03 dB maximum) and reliability with an operating life exceeding 5 million cycles per section.

SPECIFICATIONS

General

Interfaces	14-pin DIP (standard), 12-pin Viking (Option 016)
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Physical

Power Supply	24 Vdc (Standard), 5 Vdc (Option 011)
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Operating Temperature	0 to +55 °C °C
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RF/Electrical Specifications

Frequency Range	dc to 4 GHz
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Attenuation Range	0 to 11 dB
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Step Size	1 dB
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Insertion Loss (0 dB position)	0.6 dB + 0.09 dB/GHz
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Maximum VSWR	1.5
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Maximum Average Power	1 W
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Maximum Peak Power	100 W
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Attenuation Accuracy & Performance

Attenuation Repeatability	0.03 dB maximum (typically 0.01 dB)
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Drive & Switching Characteristics

Switching Speed	20 ms maximum (including contact settling)
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Operating Life (Cycles)	> 5 million cycles per section
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Control Type	Programmable
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DC/Control Connector Type	14-pin DIP (standard); 12-pin Viking (optional)
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Physical & Mechanical

RF Connectors (Input/Output)	Choice of Type-N female, SMA female, or APC-7
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Options & Configurations

Calibration Documentation Options	Option 890 (NIST traceable data for SWR and attenuation)
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Series Interconnect Compatibility	Compatible with Agilent 11716A/B/C interconnect kits
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Performance

Nominal Impedance	50 Ω
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Design & Physical

Number of Sections	4 (1 dB, 2 dB, 4 dB, 4 dB)
Switching Mechanism	Magnetic Latching

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.