

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8491A

The Keysight (Agilent/HP) 8491A is a fixed coaxial attenuator providing precision attenuation, flat frequency response, and low SWR from DC to 12.4 GHz. It features Type-N connectors and is available in standard attenuation values from 3 dB to 60 dB, making it ideal for maintaining accurate signal levels in RF and microwave measurement systems.

SPECIFICATIONS

RF and Electrical Specifications

Frequency Range	DC to 12.4 GHz
Impedance	50 Ω
Maximum VSWR	1.2 (DC to 4 GHz); 1.3 (4 to 12.4 GHz)

Power Handling

Maximum Average Power	2 W
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Mechanical and Physical Specifications

Connector Type 1	Type-N male
Connector Type 2	Type-N female

Configurations and Options

Available Attenuation Values	3 dB, 6 dB, and 10 dB to 60 dB in 10 dB increments
Calibration Data	Swept-frequency tested; calibration points provided on nameplate

Performance

Attenuation Accuracy (3, 6 dB)	± 0.3 dB
Attenuation Accuracy (10, 20 dB)	± 0.5 dB
Attenuation Accuracy (30 dB)	± 1.0 dB
Attenuation Accuracy (40, 50 dB)	± 1.5 dB
Attenuation Accuracy (60 dB)	± 2.0 dB

TECHNOLOGY

RF / Microwave

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