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Agilent 8490D
Coaxial Attenuators
Product Overview

dc to 50 GHz
2.4 mm connectors



The Agilent Technologies 8490D family is a line of precision fixed coaxial attenuators with performance specified up to 50 GHz. These attenuators use the 2.4 mm coaxial connector, which exhibits excellent performance from dc to 50 GHz. The 8490D family has attenuation values of 3, 6, 10, 20, 30, and 40 dB.

The Agilent 8490D family of 2.4 mm fixed coaxial attenuators is assembled and tested with the same meticulous care as their lower frequency counterparts: the Agilent 8491, 8492, and 8493 families. These attenuators are all tested on Agilent precision analyzers to assure specifications over the full frequency range.

Applications

Ruggedness, reliability, and small size make these attenuators useful both on the bench and in systems applications. With their accuracy and low SWR they are ideally suited for extending the range of sensitive power meters for higher power measurements. The same characteristics lend themselves to applications such as calibration standards and RF substitution measurements. With their broad dc to 50 GHz frequency range and reasonable cost, general applications such as the reduction of power level to sensitive components and instrumentation systems are attractive and appropriate uses for these attenuators.

Optional test data

Use of test data is an effective means of reducing measurement uncertainty at RF and microwave frequencies. This data is available for the 8490D as Option 890. Data is generated by an automatic network analyzer and is supplied as a tabulated list of attenuation and SWR at every 400 MHz from 400 MHz to 50 GHz. Measurements are directly traceable to NIST standards, and feature very low uncertainties.

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Specifications

	Attenuation(dB)			SWR(Maximum)			Atten. Data Uncert. (dB)
Options	Min. (GHz) 0 to 50	Max. (GHz) 0 to 26.5	Max. (GHz) 26.5 to 50	(GHz) 0 to 26.5	(GHz) 26.5 to 40	(GHz) 40 to 50	(GHz) 0.4 to 50
8490D-003	2.5	3.9	4.8	1.15	1.25	1.45	±0.6
8490D-006	5.4	6.9	7.8	1.15	1.25	1.45	±0.6
8490D-010	9.4	10.9	11.3	1.15	1.25	1.45	±0.6
8490D-020	19.2	21.3	21.7	1.15	1.25	1.45	±0.6
8490D-030	29.2	31.3	31.7	1.15	1.25	1.45	±0.8
8490D-040	38.2	42.5	42.5	1.08	1.15	1.25	±1.7

Specifications

Frequency range dc to 50 GHz
Impedance (nominal) 50 Ω
Connector 2.4 mm
Power (maximum) 1 W average; 100 W peak

Environmental

Temperature
Operating –5°C to +50°C
Non-operating –55°C to +75°C
Altitude
Operating 15,000 ft
Non-operating 50,000 ft
Humidity Cycling, 5 days, +40°C @ 95% R.H.
Vibration 0.015 in., 5-55-5 Hz, 14 min., 3 axes
Shock 100 g, 1 to 2 ms, 3 times, 3 planes

Dimensions

Length
27 mm (1.06 in.) 3, 6, 10, 20 dB
29 mm (1.14 in.) long 30, 40 dB
Diameter
8 mm (.312 in.)

Ordering information

Coaxial attenuator
8490D dc to 50 GHz, 2.4 mm coaxial connector

Options
To add options to a product, use the following ordering scheme:
Model: 8490D

Model options: 8490D-opt#1
8490D-opt#2

Attenuation (must choose one)
8490D-003 3 dB attenuation
8490D-006 6 dB attenuation
8490D-010 10 dB attenuation
8490D-020 20 dB attenuation
8490D-030 30 dB attenuation
8490D-040 40 dB attenuation

Calibration Documentation (optional)
8490D-UK6 Calibration data

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Product specifications and descriptions in this document subject to change without notice.

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Printed in USA, May 30, 2002
5963-9931E

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