Product Fact Sheet

Keysight RF & Microwave Manual Step Attenuators

Keysight manual step attenuators offer fast, precise signal-level control up to 26.5 GHz. Unmatched attenuation repeatability of less than 0.03 dB up to 5 million cycles per section ensures low measurement uncertainty. Attenuation range of 121 dB in 1 dB step can be achieved by cascading 2 attenuators in series.



Manual step attenuators

Key features

- High reliability and exceptional repeatability reduce downtime
- Excellent RF specifications optimize test system measurement capability
- Broad portfolio of attenuation and connector options provide configuration flexibility

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Product specifications

Manual step attenuator

Model	Frequency (GHz)	Attenuation range (dB)	Attenuation step (dB)	Insertion loss (dB) at 0 dB	Maximum SWR	Maximum input average power (W)	Maximum input peak power (W)	Operating life (in million cycles/section)	Repeatability (5 million cycles per section)
8494A	DC to 4	0 to 11	1	0.96	1.50	1	100	5	± 0.03 dB max
8495A	DC to 4	0 to 70	10	0.68	1.35	1	100	5	± 0.03 dB max
8496A	DC to 4	0 to 110	10	0.96	1.50	1	100	5	± 0.03 dB max
8494B	DC to 18	0 to 11	1	2.22	1.90	1	100	5	± 0.03 dB max
8495B	DC to 18	0 to 70	10	1.66	1.70	1	100	5	± 0.03 dB max
8496B	DC to 18	0 to 110	10	2.22	1.90	1	100	5	± 0.03 dB max
8495D	DC to 26.5	0 to 70	10	3.95	2.22	1	100	5	± 0.03 dB max to 18 GHz, ± 0.05 dB max to 26.5 GHz

* All product models listed above offer RF connector options for N(f) / SMA(f) / APC-7 except 8495D which only offers 3.5 mm (f) RF connectors.



Three-Year Warranty

www.keysight.com/find/ThreeYearWarranty

Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.



Keysight Assurance Plans

www.keysight.com/find/AssurancePlans

Up to three years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.

Manual step attenuator option

Models	Option type	Option description
8494A/8495A/ 8496A/8494B/ 8495B/8496B/ 8495D	001	N (f)
	002	SMA (f)
	004	3.5 mm (f) [1]
	024	24 Vdc
	011	5 Vdc
	UK6	Commercial calibration test data with certifications

* Each order must include RF connector option.

1. Available with Keysight 8495 only.

For more details on Keysight attenuators and ordering information see "Keysight RF and Microwave Attenuators", literature number 5989-6948EN.

For more information on Keysight amplifiers, please visit: www.keysight.com/find/attenuators

Download or order from www.keysight.com/find/mta

To find a distributor in your area, go to: www.keysight.com/find/distributors

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