

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.



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

Manual step attenuators

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.

Manual step attenuator option

Models	Option type	Option description
8494A/8495A/	001	N (f)
8496A/8494B/	002	SMA (f)
8495B/8496B/	004	3.5 mm (f) ¹
8495D	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.