

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

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.