Model number	Frequency	Attenuation selection								Max. SWR	Max. input average power (W)	Max. input peak power (W)[1]	RF connectors
		3 dB	6 dB	10 dB	20 dB	30 dB	40 dB	50 dB	60 dB				
8491A	DC to 12.4 GHz	x	x	x	x	x	x	x	x	1.30	2	100	N (m,f)
8493A	DC to 12.4 GHz	x	x	x	x	x	-	-	-	1.30	2	100	SMA (m,f)
8491B	DC to 18 GHz	x	x	x	x	x	x	x	x	1.50	2	100	N (m,f)
8493B	DC to 18 GHz	x	x	x	x	x	-	-	-	1.50	2	100	SMA (m,f)
8498A	DC to 18 GHz	-	-	-	-	x	-	-	-	1.30	25	125	N (m,f)
8493C	DC to 26.5 GHz	x	x	x	x	x	x	-	-	1.25	2	100	3.5 mm (m,f)
8490D	DC to 50 GHz	x	x	x	x	x	x	-	-	1.45	1	100	2.4 mm (m,f)
8490G	DC to 67 GHz	x	x	x	x	x	x	-	-	1.45	1	100	1.95 mm (m,f)

1. The peak power maximum pulse width is 10 microseconds.

Manual Step Attenuators

Figure 3. 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[1]									
Model number	Frequency	Attenuation range (dB)	Attenuation step (dB)	Insertion loss (dB) at 0 dB	Maximum SWR	Maximum input average power (W)	Maximum input peak power (W)[2]	Operating life (n million cycles/ section)	Repeatability (dB)
8494A	DC to 4 GHz	0 to 11	1	0.96	1.50	1	100	5	0.03
8495A	DC to 4 GHz	0 to 70	10	0.68	1.35	1	100	5	0.03
8496A	DC to 4 GHz	0 to 110	10	0.96	1.50	1	100	5	0.03
8494B	DC to 18 GHz	0 to 11	1	2.22	1.90	1	100	5	0.03
8495B	DC to 18 GHz	0 to 70	10	1.66	1.70	1	100	5	0.03
8496B	DC to 18 GHz	0 to 110	10	2.22	1.90	1	100	5	0.03
8495D	DC to 26.5 GHz	0 to 70	10	3.95	2.20	1	100	5	0.03 to 18 GHz 0.05 to 26.5 GHz

1. All product models listed above offer RF connector options for N(f) / SMA(f) / APC-7 except 8495D which only offer 3.5 mm (f) RF connectors.
2. The peak power maximum pulse width is 10 microseconds.