Programmable Step Attenuators

Figure 4. Programmable step attenuators

Keysight programmable step attenuators offer fast, precise signal-level control up to 50 GHz, with switching time of less than 20 ms. Unmatched attenuation repeatability of less than 0.03 dB up to 5 million cycles per section ensures low measurement uncertainty and reduces calibration cycles when installed into test systems. Automatic GPIB/USB/LAN drive control is achieved with the 11713B/C attenuator/switch driver.

Programmable step attenuators

Model number	Frequency	Attenuation range (dB)	Attenuation step (dB)	Insertion loss (dB) at 0 dB	Max. SWR	Max. input average power (W)	Max. input peak power (W)[1]	Operating life (n million cycles/ section)	Repeatability (dB)
8494G	DC to 4 GHz	0 to 11	1	0.96	1.50	1	100	5	0.03
8495G	DC to 4 GHz	0 to 70	10	0.68	1.35	1	100	5	0.03
8496G	DC to 4 GHz	0 to 110	10	0.96	1.50	1	100	5	0.03
8494H	DC to 18 GHz	0 to 11	1	2.22	1.90	1	100	5	0.03
8495H	DC to 18 GHz	0 to 70	10	1.66	1.70	1	100	5	0.03
8496H	DC to 18 GHz	0 to 110	10	2.22	1.90	1	100	5	0.03
8495K	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
8497K	DC to 26.5 GHz	0 to 90	10	2.79	1.80	1	100	5	0.03 to 18 GHz 0.05 to 26.5 GHz
84904K	DC to 26.5 GHz	0 to 11	1	1.86	2.00	1	50	5	0.03
84906K	DC to 26.5 GHz	0 to 90	10	1.86	2.00	1	50	5	0.03
84907K	DC to 26.5 GHz	0 to 70	10	1.40	1.90	1	50	5	0.03
84904L	DC to 40 GHz	0 to 11	1	2.40	2.00	1	50	5	0.03
84906L	DC to 40 GHz	0 to 90	10	2.40	2.00	1	50	5	0.03
84907L	DC to 40 GHz	0 to 70	10	1.80	1.90	1	50	5	0.03
84904M	DC to 50 GHz	0 to 11	1	3.00	3.00	1	50	5	0.03
84905M	DC to 50 GHz	0 to 60	10	2.60	2.60	1	50	5	0.03
84908M	DC to 50 GHz	0 to 65	5	3.00	3.00	1	50	5	0.03

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