

Agilent 8494G/H, 8495G/H, 8496G/H Programmable Step Attenuators

Data Sheet



Features

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

Anticipate — Accelerate — Achieve



Agilent Technologies

Specifications describe the instrument's warranted performance. Supplemental and typical characteristics are intended to provide information useful in applying the instrument by giving typical, but not warranted performance parameters.

Specifications

Model number	Frequency	Attenuation range (dB)	Attenuation step	Insertion loss (dB) @ 0 dB	Maximum SWR	Max. input average power	Max. input peak power	Operating life (n million cycles/section)	Repeatability
8494G	DC to 4 GHz	0 to 11	1 dB	0.96	1.50	1 W	100 W	5	±0.03 dB max 5 million cycles per section
8495G	DC to 4 GHz	0 to 70	10 dB	0.68	1.35	1 W	100 W	5	±0.03 dB max 5 million cycles per section
8496G	DC to 4 GHz	0 to 110	10 dB	0.96	1.50	1 W	100 W	5	±0.03 dB max 5 million cycles per section
8494H	DC to 18 GHz	0 to 11	1 dB	2.22	1.90	1 W	100 W	5	±0.03 dB max 5 million cycles per section
8495H	DC to 18 GHz	0 to 70	10 dB	1.66	1.70	1 W	100 W	5	±0.03 dB max 5 million cycles per section
8496H	DC to 18 GHz	0 to 110	10 dB	2.22	1.90	1 W	100 W	5	±0.03 dB max 5 million cycles per section

RF Connector Options: 1) 849xG/H offers N(f)/SMA (f)/APC-7

Supplemental Specifications

Attenuation Accuracy: +/- dB (Reference from 0 dB)

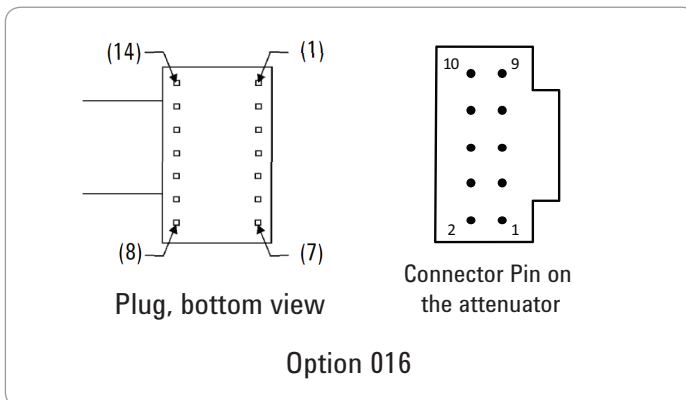
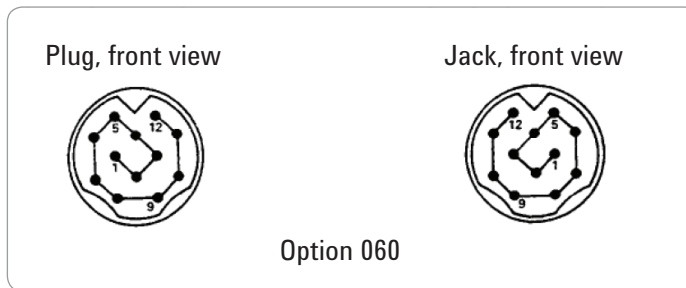
8494G/H	8495G/H 8496G/H	8494G	8494H			8495G	8495H		8496G	8496H	
Attenuation Selection (dB)		DC to 4 GHz	DC to 12.4 GHz	12.4 to 18 GHz	DC to 4 GHz	DC to 12.4 GHz	12.4 to 18 GHz	DC to 4 GHz	DC to 12.4 GHz	12.4 to 18 GHz	
1	10	0.2	0.3	0.7	0.2	0.5	0.6	0.2	0.5	0.6	
2	20	0.2	0.3	0.7	0.4	0.7	0.8	0.4	0.7	0.8	
3	30	0.3	0.4	0.7	0.5	0.9	1.2	0.5	0.9	1.2	
4	40	0.3	0.4	0.7	0.7	1.2	1.6	0.7	1.2	1.6	
5	50	0.3	0.5	0.7	0.8	1.5	2.0	0.8	1.5	2.0	
6	60	0.3	0.5	0.8	1.0	1.8	2.4	1.0	1.8	2.4	
7	70	0.4	0.6	0.8	1.2	2.1	2.8	1.2	2.1	2.8	
8	80	0.4	0.6	0.8	-	-	-	1.3	2.4	3.2	
9	90	0.4	0.6	0.8	-	-	-	1.5	2.7	3.6	
10	100	0.4	0.6	0.9	-	-	-	1.6	3.0	4.0	
11	110	0.5	0.7	0.9	-	-	-	1.8	3.3	4.4	

How To Drive

Section	Section 1		Section 2		Section 3		Section 4		Power V+	
Solenoid Coil	Thru-line	Atten Card	Thru-line	Atten Card	Thru-line	Atten Card	Thru-line	Atten Card		
Option 060	Bare Wire Cable Color Code ¹	PUR	YEL	BLK	GRN	ORN	BLU	BRN	WHT	RED
	Connector Plug Pin Number	5	6	7	8	9	10	11	12	1
Option 016	Flat Pack Plug Pin Number ²	13	2	11	5	3	9	4	10	6
	Pin Number on the attenuator	1	2	5	8	4	9	6	7	10
8494G/H	0 dB	1 dB	0 dB	2 dB	0 dB	4 dB	0 dB	4 dB	-	-
8495G/H	0 dB	10 dB	0 dB	20 dB	0 dB	40 dB	-	-	-	-
8496G/H	0 dB	10 dB	0 dB	20 dB	0 dB	40 dB	0 dB	40 dB	-	-

¹ Five-foot cable and mating plug assembly provided.

² Pin 6 is common for all coils. Pin 1, 7, 8, 12 and 14 are not used.



Ordering Information

Attenuation range	Option type	Option description
8494G/ 8494H/ 8495G/ 8495H/ 8496G/ 8496H/	001	N (f)
	002	SMA (f)
	003	APC-7
	024	24 Vdc
	011	5 Vdc
	060	12-pin Viking connector
	016	16-inch ribbon cable with 14-pin DAP plug
	UK6	Commercial calibration test data with certifications

Note: Option 003 is not available for 8495G

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