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TECHNOLOGY GROUP

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DATA SHEET

8494G/H, 8495G/H, 8496G/H

Programmable Step Attenuators



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

KEYSIGHT 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 (in million cycles/ section)	Repeatability (typical)
8494G	DC to 4 GHz	0 to 11	1 dB	0.96	1.50	1 W	100 W	5	±0.03 dB max 5 mil- lion 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 mil- lion 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 mil- lion cycles per section
8494H	DC to 18GHz	0 to 11	1 dB	2.22	1.90	1 W	100 W	5	±0.03 dB max 5 mil- lion cycles per section
8495H	DC to 18GHz	0 to 70	10 dB	1.66	1.70	1 W	100 W	5	±0.03 dB max 5 mil- lion cycles per section
8496H	DC to 18GHz	0 to 110	10 dB	2.22	1.90	1 W	100 W	5	±0.03 dB max 5 mil- lion 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)

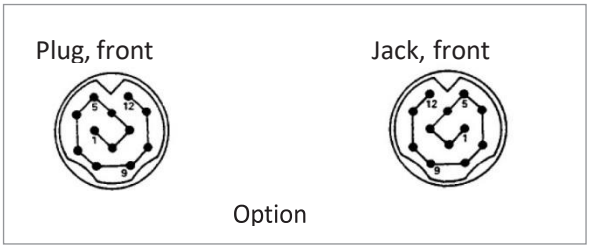
8494G/H	8495G/H 8496G/H	8494G	8494H		8495G	8495H		8496G	8496H	
Attenuation Selection (dB)		DC to 4 Ghz	DC to 12.4 GHz	12.4 to 18 GHz	DC to 4 GHz	DC to 12.4 GHz	12.4 to 18 GHz	DC to 4 GHz	DC to 12.4 GHz	12.4 to 18 GHz
1	10	0.2	0.3	0.7	0.2	0.5	0.6	0.2	0.5	0.6
2	20	0.2	0.3	0.7	0.4	0.7	0.8	0.4	0.7	0.8
3	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

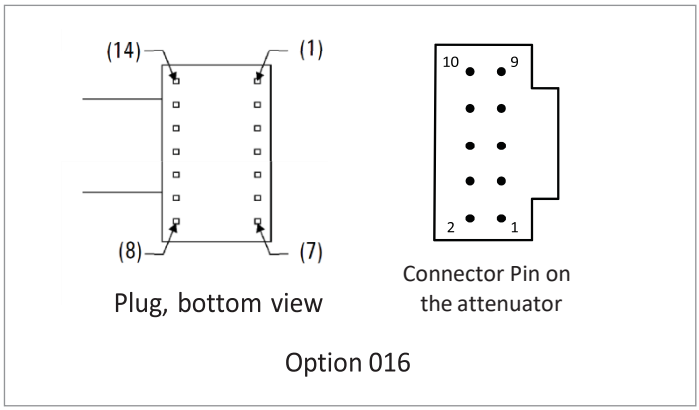
8494G/H	8495G/H 8496G/H	8494G	8494H		8495G	8495H		8496G	8496H	
8	80	0.4	0.6	0.8	-	-	-	1.3	2.4	3.2
9	90	0.4	0.6	0.8	-	-	-	1.5	2.7	3.6
10	100	0.4	0.6	0.9	-	-	-	1.6	3.0	4.0
11	110	0.5	0.7	0.9	-	-	-	1.8	3.3	4.4

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 back 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 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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KEYSIGHT TECHNOLOGIES

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