

## Specifications

### Frequency Range and Attenuation

Product	8494A	8494B	8495A	8495B	8496A	8496B
Frequency Range	dc to 4GHz	dc to 18GHz	dc to 4GHz	dc to 18GHz	dc to 4GHz	dc to 18GHz
Attenuation	0dB to 11dB	0dB to 11dB	0dB to 70dB	0dB to 70dB	0dB to 110dB	0dB to 110dB
Steps	1dB	1dB	10dB	10dB	10dB	10dB

### Attenuation Accuracy (dB): (Referenced from 0dB)

8494A/B	8495A/B 8496A/B	8494A			8495A			8496A		
		dc-4 GHz	dc-12.4 GHz	12.4-18 GHz	dc-4 GHz	dc-12.4 GHz	12.4-18 GHz	dc-4 GHz	dc-12.4 GHz	12.4-18 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

## Specifications

### Maximum SWR

Instrument	Frequency Range (GHz)	Maximum SWR
8495A	dcto4	1.35
8495B	dcto8	1.35
	8to12.4	1.5
	12.4to18	1.7
8494A, 8496A	dcto4	1.5
8494B, 8496B	dcto8	1.5
	8to12.4	1.6
	12.4to18	1.9

### Maximum Residual Attenuation

Instrument	Maximum Residual Attenuation
8494A, 8494B	0.6dB+0.09dB/GHz
8495A, 8495B	0.4dB+0.07dB/GHz
8496A, 8496B	0.6dB+0.09dB/GHz

**Attenuation Repeatability** 0.01 dB typical after 5 million cycles

**RF Power Handling Capability** 1 W average, 100 W peak with maximum pulse width of 10 microseconds (all models)

**Minimum Life** >5 million cycles per section

**Environment Limits** The instruments should be stored in a clean, dry environment. The following environmental limits apply to storage and shipment, and operation.

Characteristic	Storage and Shipping Value	Operating Value
Temperature	-40 to +75 °C	0 to +55 °C
Humidity	<95% relative	<95% relative
Altitude	<7600 m (25000 ft)	<4600 m (15000 ft)

## Physical Characteristics

Instrument	Dimensions <sup>1</sup> (depthxwidthxheight)	Weight <sup>2</sup>
8494A/B	6.25inx2.875inx1.6875in 159mmx73mmx43mm	15oz 425g
8495A/B	5.125inx2.875inx1.6875in 130mmx73mmx43mm	11oz 312g
8496A/B	6.25inx2.875inx1.6875in 159mmx73mmx43mm	15oz 425g

1. Dimensions are for general information only. If dimensions are required for building special enclosures, contact your Agilent field engineer.
2. Weight and width of the instrument varies with the option selected due to the type of connectors.