

MICROWAVE TEST ACCESSORIES

Ordering HP 8494/5/6/7 Series Attenuators

How to Order the HP 8494/5/6/7 Series Attenuators

Each order must include basic model number, suffix letter, and connector option.

Optional calibration data

HP 8494 A Option 001 Option 890

4 (1 dB step, 11 dB max)
5 (10 dB step, 70 dB max)
6 (10 dB step, 110 dB max)
7 (10 dB step, 90 dB max)

A (Manual, dc to 4 GHz)
B (Manual, dc to 18 GHz)
D (Manual, dc to 26.5 GHz)*
G (Programmable, dc to 4 GHz)
H (Programmable, dc to 18 GHz)
K (Programmable, dc to 26.5 GHz)*

001 (N female)
002 (SMA female)
003 (APC-7)
004 (3.5 mm female)*
* Option 004 is only available on D and K models.

HP 355 Series, 8494/5/6/7 Series Specifications

HP model (switching model) (OEM model no.)	Frequency range (GHz)	Incremental attenuation (dB)	SWR maximum (50 Ω nominal)	Insertion loss (0 dB setting)	Attenuation accuracy	Power rating, minimum life	Solenoid voltage speed power	Size, shipping weight	Connector options available	Price
355C (Manual)	dc to 1	0 to 12 1 dB steps	dc to 0.25 GHz: 1.2 dc to 0.5 GHz: 1.3 dc to 1.0 GHz: 1.5	0.11 dB + 1.39 dB/GHz	±0.1 dB @ 1000 Hz ±0.25 dB: dc to 0.5 GHz ±0.35 dB: dc to 1.0 GHz	0.5 W avg 350 W peak 0.3 million cycles per section	— 15 to 18 V < 65 ms 3.0 W	67 mm H × 70 mm W × 152 mm D (2.6 in × 2.75 in × 6 in) 1.4 kg (3 lb)	BNC (f) See Note 1	\$770 \$1,155
355E (Programmable)										
355D (Manual)	dc to 1	0 to 120 10 dB steps	dc to 0.25 GHz: 1.2 dc to 0.5 GHz: 1.3 dc to 1.0 GHz: 1.5	0.11 dB + 1.39 dB/GHz	±0.3 dB @ 1000 Hz ±1.5 dB to 90 dB, and ±3 dB to 120 dB @ 1 GHz	0.5 W avg 350 W peak 0.3 million cycles per section	— 15 to 18 V < 65 ms 3.0 W	67 mm H × 70 mm W × 152 mm D (2.6 in × 2.75 in × 6 in) 1.4 kg (3 lb)	BNC (f) See Note 1	\$770 \$1,155
355F (Programmable)										
8494A (Manual) (33320A)	dc to 4	0 to 11 1 dB steps	1.5	0.6 dB + 0.09 dB/GHz	±0.2 dB: 1 to 2 dB ±0.3 dB: 3 to 6 dB ±0.4 dB: 7 to 10 dB ±0.5 dB: 11 dB	1 W avg 100 W peak 10 μs max 5 million cycles per section	— 20 to 30 V < 20 ms 2.7 W	43 mm H × 73 mm W × 159 mm D (1.7 in × 2.9 in × 6.2 in) 43 mm H × 73 mm W × 142 mm D (1.7 in × 2.9 in × 5.6 in)	001 002 003 See Note 2	\$665 \$870
8494G (Programmable) (33320G)										
8494B (Manual) (33320B)	dc to 18	0 to 11 1 dB steps	dc to 8 GHz: 1.5 dc to 12.4 GHz: 1.6 dc to 18 GHz: 1.9	0.6 dB + 0.09 dB/GHz	dc to 12.4 GHz ±0.3 dB: 1 to 2 dB ±0.4 dB: 3 to 4 dB ±0.5 dB: 5 to 6 dB ±0.6 dB: 7 to 10 dB ±0.7 dB: 11 dB dc to 18 GHz ±0.7 dB: 1 to 5 dB ±0.8 dB: 6 to 9 dB ±0.9 dB: 10 to 11 dB	1 W avg 100 W peak 10 μs max 5 million cycles per section	— 20 to 30 V < 20 ms 2.7 W	43 mm H × 73 mm W × 159 mm D (1.7 in × 2.9 in × 6.2 in) 43 mm H × 73 mm W × 142 mm D (1.7 in × 2.9 in × 5.6 in)	001 002 003 See Note 2	\$960 \$1,280
8494H (Programmable) (33320H)										
8495A (Manual) (33321A)	dc to 4	0 to 70 10 dB steps	1.35	0.4 dB + 0.07 dB/GHz	±1.7% of setting or ±0.4 dB, whichever is greater	1 W avg 100 W peak 10 μs max 5 million cycles per section	— 20 to 30 V < 20 ms 2.7 W	43 mm H × 73 mm W × 130 mm D (1.7 in × 2.9 in × 5.1 in) 43 mm H × 73 mm W × 114 mm D (1.7 in × 2.9 in × 4.5 in)	001 002 003 See Note 2	\$560 \$735
8495G (Programmable) (33321G)										
8495B (Manual) (33321B)	dc to 18	0 to 70 10 dB steps	dc to 8 GHz: 1.35 dc to 12.4 GHz: 1.5 dc to 18 GHz: 1.7	0.4 dB + 0.07 dB/GHz	±3%: dc to 12.4 GHz ±4%: dc to 18 GHz % in dB from Atten. Setting	1 W avg 100 W peak 10 μs max 5 million cycles per section	— 20 to 30 V < 20 ms 2.7 W	43 mm H × 73 mm W × 130 mm D (1.7 in × 2.9 in × 5.1 in) 43 mm H × 73 mm W × 114 mm D (1.7 in × 2.9 in × 4.5 in)	001 002 003 See Note 2	\$715 \$960
8495H (Programmable) (33321H)										
8495D (Manual) (33321D)	dc to 26.5	0 to 70 10 dB steps	dc to 6 GHz: 1.25 6 to 12.4 GHz: 1.45 12.4 to 18.0 GHz: 1.6 18.0 to 26.5 GHz: 1.8	0.4 dB + 0.09 dB/GHz	±0.3 dB at 6 GHz 10 dB attenuation to ±2.8 dB at 26.5 GHz 90 dB attenuation. See Data Sheet 5952-8278 for details.	1 W avg 100 W peak 10 μs max 5 million cycles per section	— 20 to 30 V < 20 ms 2.7 W	43 mm H × 52 mm W × 159 mm D (1.7 in × 2.1 in × 6.2 in) 43 mm H × 52 mm W × 168 mm D (1.7 in × 2.1 in × 6.6 in)	004 3.5 mm See Note 2	\$925 \$1,210
8495K (Programmable) (33321K)										
8496A (Manual) (33322A)	dc to 4	0 to 110 10 dB steps	1.5	0.6 dB + 0.09 dB/GHz	±1.7% of setting or ±0.4 dB, whichever is greater	1 W avg 100 W peak 10 μs max 5 million cycles per section	— 20 to 30 V < 20 ms 2.7 W	43 mm H × 73 mm W × 159 mm D (1.7 in × 2.9 in × 6.2 in) 43 mm H × 73 mm W × 142 mm D (1.7 in × 2.9 in × 5.6 in)	001 002 003 See Note 2	\$665 \$875
8496G (Programmable) (33322G)										
8496B (Manual) (33322B)	dc to 18	0 to 110 10 dB steps	dc to 8 GHz: 1.5 dc to 12.4 GHz: 1.6 dc to 18 GHz: 1.9	0.6 dB + 0.09 dB/GHz	±3%: dc to 12.4 GHz ±4%: dc to 18 GHz % in dB from Atten. Setting	1 W avg 100 W peak 10 μs max 5 million cycles per section	— 20 to 30 V < 20 ms 2.7 W	43 mm H × 73 mm W × 159 mm D (1.7 in × 2.9 in × 6.2 in) 43 mm H × 73 mm W × 142 mm D (1.7 in × 2.9 in × 5.6 in)	001 002 003 See Note 2	\$960 \$1,280
8496H (Programmable) (33322H)										
8497K (Programmable) (33323K)	dc to 26.5	0 to 90 10 dB steps	dc to 6 GHz: 1.25 6 to 12.4 GHz: 1.45 12.4 to 18.0 GHz: 1.6 18.0 to 26.5 GHz: 1.8	0.6 dB + 0.09 dB/GHz	±0.3 dB at 6 GHz 10 dB attenuation to ±2.8 dB at 26.5 GHz 90 dB attenuation. See Data Sheet 5952-8278 for details.	1 W avg 100 W peak 10 μs max 5 million cycles per section	5 V or 24 V	43 mm H × 52 mm W × 143 mm D (1.7 in × 2.1 in × 5.6 in) 0.9 kg (2 lb)	004 3.5 mm See Note 2	\$1,365
Option 890 Calibration data		Option 890 frequency list (MHz) dc to 4 GHz models: 100, 300, 500, 700, 900, 1000, 1250, 1500, 1750, 2000, 2500, 3000, 3500, 4000. dc to 26.5 GHz models: every 500 MHz 2 to 16 GHz. every 250 MHz 16 to 26.5 GHz. dc to 18 GHz models: Same as above to 4000 MHz, every 500 MHz to 16000 (plus 12400 MHz), every 250 MHz from 16000 to 18000.						Models 8494A/G, 8496A/G, 33320A/G, 33322A/G 8495A/G, 33321A/G 8494B/H, 8496B/H, 33320B/H, 33322B/H 8495B/H, 33321B/H 8495D/K, 8497K		Option 890 +\$25 +\$25 +\$35 +\$35 +\$50
Note 1: 355C/D/E/F connector options (BNC (f) standard): Option 001 N(f) Option 005 TNC(f) Option 007 Transistor protection (355E/F only)						Price +\$25 +\$10 +\$55	Note 2: 8494/5/6/7 orders must specify connector option. See ordering example above. Option 001 N(f) Option 002 SMA(f) Option 003 APC-7 Option 004 3.5 mm (HP 8495D/K, 8497K only)			Price 890 N/C N/C +\$50 N/C

For off-the-shelf shipment, call 800-452-4844.