

MICROWAVE TEST ACCESSORIES

Ordering HP 355 Series and 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)	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
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
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
355F (Programmable)									
8494A (Manual)	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) 0.9 kg (2 lb) 43 mm H × 73 mm W × 142 mm D (1.7 in × 2.9 in × 5.6 in)	001 002 003 See Note 2
8494G (Programmable)									
8494B (Manual)	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) 0.9 kg (2 lb) 43 mm H × 73 mm W × 142 mm D (1.7 in × 2.9 in × 5.6 in)	001 002 003 See Note 2
8494H (Programmable)									
8495A (Manual)	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) 0.9 kg (2 lb) 43 mm H × 73 mm W × 114 mm D (1.7 in × 2.9 in × 4.5 in)	001 002 003 See Note 2
8495G (Programmable)									
8495B (Manual)	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) 0.9 kg (2 lb) 43 mm H × 73 mm W × 114 mm D (1.7 in × 2.9 in × 4.5 in)	001 002 003 See Note 2
8495H (Programmable)									
8495D (Manual)	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.	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) 0.9 kg (2 lb) 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
8495K (Programmable)									
8496A (Manual)	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) 0.9 kg (2 lb) 43 mm H × 73 mm W × 142 mm D (1.7 in × 2.9 in × 5.6 in)	001 002 003 See Note 2
8496G (Programmable)									
8496B (Manual)	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) 0.9 kg (2 lb) 43 mm H × 73 mm W × 142 mm D (1.7 in × 2.9 in × 5.6 in)	001 002 003 See Note 2
8496H (Programmable)									
8497K (Programmable)	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.	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
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 18 GHz models: Same as above to 4000 MHz, every 500 MHz to 16000 (plus 12400 MHz), every 250 MHz from 16000 to 18000.	DC to 26.5 GHz models: every 500 MHz 2 to 16 GHz, every 250 MHz 16 to 26.5 GHz.				Models 8494A/G, 8496A/G 8495A/G 8494B/H, 8496B/H 8495B/H 8495D/K, 8497K	

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)

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)