



# High Voltage Attenuator

- Flat frequency response over a wide bandwidth
- Frequency response includes the DC component
- Compensation software available for frequency range extension



Our high voltage attenuators are designed for the performance measurement of pulse generators. The nominal attenuation is 54 dB. Increased attenuation can be achieved by adding an optional high voltage attenuator at the output of the device.

## SPECIFICATIONS

Reference	HVAT50K-54dB	HVAT200K-54dB
Type	resistive attenuator	resistive attenuator
Maximum peak voltage	50 kV, for pulse $\leq 1$ ns 29 kV, for pulse $\leq 600$ ns	200 kV, for pulse $\leq 1$ ns 125 kV, for pulse $\leq 23$ ns 50 kV, for pulse $\leq 100$ ns 29 kV, for pulse $\leq 600$ ns
Maximum input DC voltage	30 V	30 V
Frequency response	DC to 300 MHz (-3 dB) DC to 4 GHz <sup>1</sup>	DC to 300 MHz (-3 dB) DC to 1.6 GHz <sup>1</sup>
S <sub>11</sub>	< 15 dB (up to 2 GHz) < 8 dB (up to 4 GHz)	< 20 dB (up to 0.2 GHz) < 13 dB (up to 1.6 GHz)
VSWR	< 1.3 (up to 2 GHz) < 1.8 (up to 4 GHz)	< 1.2 (up to 0.2 GHz) < 1.6 (up to 1.6 GHz)
Impedance	50 ohm	50 ohm
Attenuation	54 dB $\pm$ 1 dB (nominal)	54 dB $\pm$ 1 dB (nominal)
Insulation	PTFE / oil	PTFE / oil
Input connector	HVM50K (female) Montena proprietary	HVM200K (female) Montena proprietary
Output connector	N (female)	N (female)
Maximum average power	20 W	20 W
Maximum energy	1.7 kJ	1.7 kJ
Working temperature	10 - 50 °C	10 - 50 °C
Weight (alone / with support)	4.2 kg / 4.6 kg	7 kg / 7.4 kg
Size (L x diam.)	256 x 70 mm	343 x 90 mm

<sup>1</sup> : with software compensation