



montena

High Voltage Divider



This ultra fast voltage divider is designed for the measurement of short pulses up to a voltage of more than 200 kV. The response of the sensor is derivative; therefore the signal measured with the high speed oscilloscope must be integrated. The integration can be active or passive (for instance with the passive integrator ITR1-2U from montena). Three versions with different types of connectors are available.

SPECIFICATIONS

Reference	VDOT8G	VDOT8GS	VDOT200K
Type	V-Dot (voltage)	V-Dot (voltage)	V-Dot (voltage)
Response	derivative	derivative	derivative
Maximum DC voltage	4 kV	25 kV	75 kV
Maximum pulse voltage (1 ns impulse)	20 kV	75 kV	200 kV
Frequency response	up to 7.5 GHz	up to 3 GHz	up to 1.6 GHz
Risetime (10 – 90 %)	50 ps	120 ps	200 ps
Impedance	50 ohm	50 ohm	50 ohm
Attenuation between input and output	< 0.5 dB	< 0.7 dB	< 0.7 dB
Connector type (HV)	7/16 (f)	HVM50K (f) montena proprietary	HVM200K (f) montena proprietary
Connector type (meas.)	SMA (f)	SMA (f)	SMA (f)
Weight	280 g	800 g	1.4 kg
Dimensions (L x W x H)	62 x 31 x 42 mm	88 x 45 x 58 mm	100 x 95 x 109 mm