Pulse Generator Requirement Questionnaire

In order to quickly analyse the enquiries concerning the high voltage pulse generators, we need some information. Please fill-in the following lines of this questionnaire and we will send you a quotation in a short delivery time. The first part of the questionnaire is mandatory. The second one is optional but any information helps us to speed up the process.

Required information:

Type of pulse: ☐ voltage   ☐ current

The pulse specifications must be fulfilled on the following load[1]:

    ☐ 50 Ω   ☐ open circuit   ☐ short circuit   ☐ other: _____   [Ω]

Peak voltage: _____ [kV]   or   peak current: _____ [kA]

Waveform type[2]: ☐ double exponential   ☐ rectangular   ☐ gaussian   ☐ other: _____

Rise time T_r (10-90%): _____ [ns]

Fall time T_f (90-10%) (if waveform rectangular): _____   [ns]

Duration[3] T_d (50-50%): _____   ☐ [ns] ☐ [µs]

Generator output impedance: _____   [Ω]

Repetition frequency: _____   ☐ [Hz]   ☐ [kHz]   ☐ [MHz]   ☐ single pulse

Useful additional information:

Energy of the generator[4]: _____   ☐ [J]   ☐ [kJ]

Charging voltage: _____ [kV]

Type of output connector: _____

Interface: ☐ RS232   ☐ USB   ☐ other: _____

Type of standard: _____

Description of the application: _____

_____

Other information or remarks: _____

_____

Remarks:

[1] *: Generally (but not always), the pulse specifications are given for a load equal to the generator impedance (in RF: 50 Ω). In other cases, the voltage generators could be defined in open circuit and current generators in short circuit.*

[2] *: Example of waveform and definition of the pulses are given in the next page.*

[3] *: The duration of the pulse is sometimes named FWHM (full width at half-maximum).*

[4] *: The energy can be alternately given to the impedance requirement. The one or the other must be given in order to completely define the generator.*

Do not hesitate to contact us for any further information. Please fill in this questionnaire and send back to the following given below.
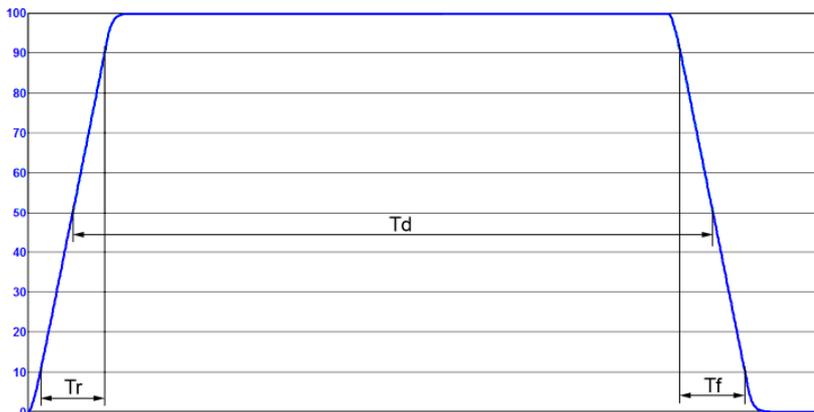
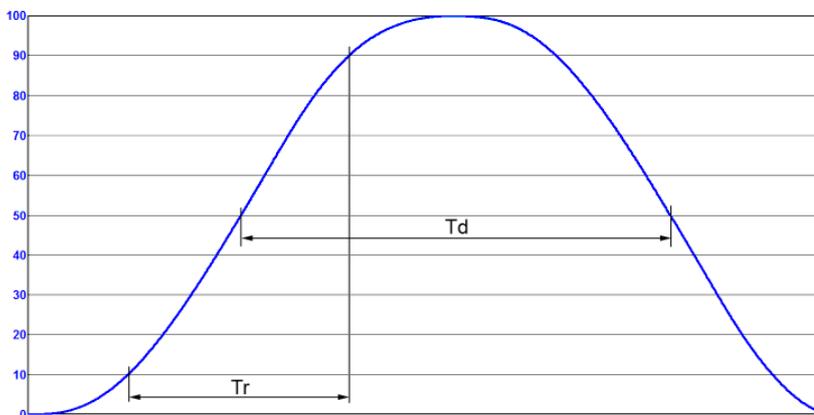**Definition of the waveform and of the rise time / fall time / duration of the pulse**
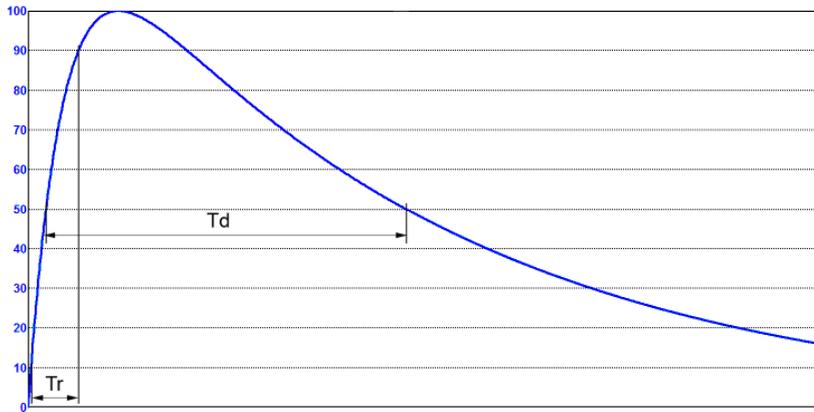
Double exponential waveform

Rectangular waveform

Gaussian waveform