



## 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<sup>1</sup>:

50  $\Omega$   open circuit  short circuit  other: \_\_\_\_\_ [ $\Omega$ ]

Peak voltage: \_\_\_\_\_ [kV] or peak current: \_\_\_\_\_ [kA]

Waveform type<sup>2</sup>:  double exponential  rectangular  gaussian  other: \_\_\_\_\_

Rise time  $T_r$  (10-90%): \_\_\_\_\_ [ns]

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

Duration<sup>3</sup>  $T_d$  (50-50%): \_\_\_\_\_  [ns]  [ $\mu$ s]

Generator output impedance: \_\_\_\_\_ [ $\Omega$ ]

Repetition frequency: \_\_\_\_\_  [Hz]  [kHz]  [MHz]  single pulse

### Useful additional information:

Energy of the generator<sup>4</sup>: \_\_\_\_\_  [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:

<sup>1</sup> : Generally (but not always), the pulse specifications are given for a load equal to the generator impedance (in RF: 50  $\Omega$ ). In other cases, the voltage generators could be defined in open circuit and current generators in short circuit.

<sup>2</sup> : Example of waveform and definition of the pulses are given in the next page.

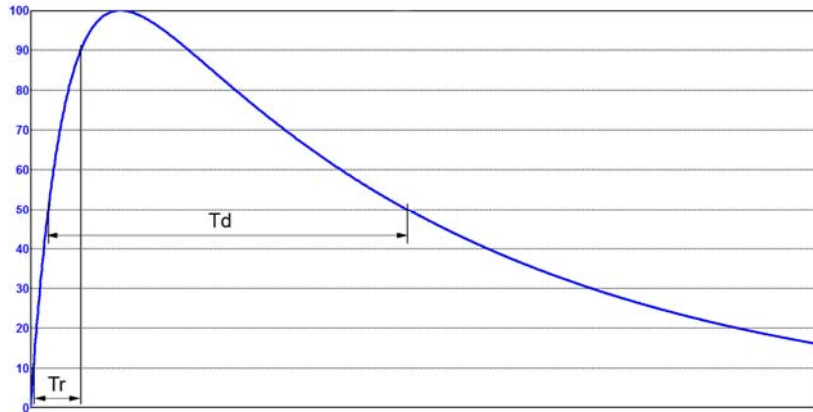
<sup>3</sup> : The duration of the pulse is sometimes named FWHM (full width at half-maximum).

<sup>4</sup> : 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.

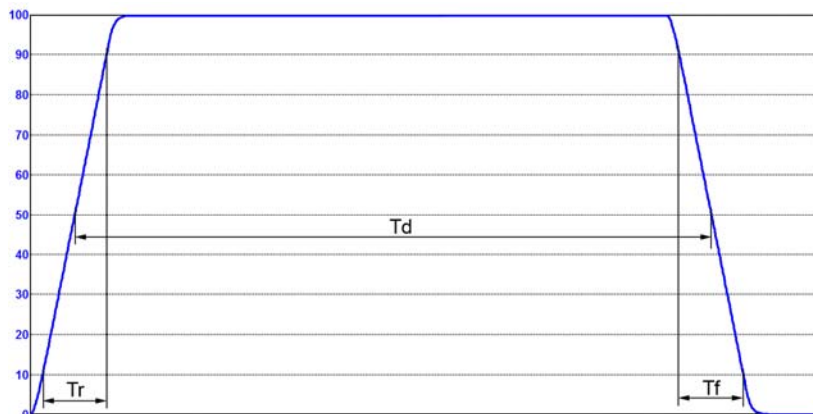
**Do not hesitate to contact us for any further information. Please fill in this questionnaire and send back to the following given below.**



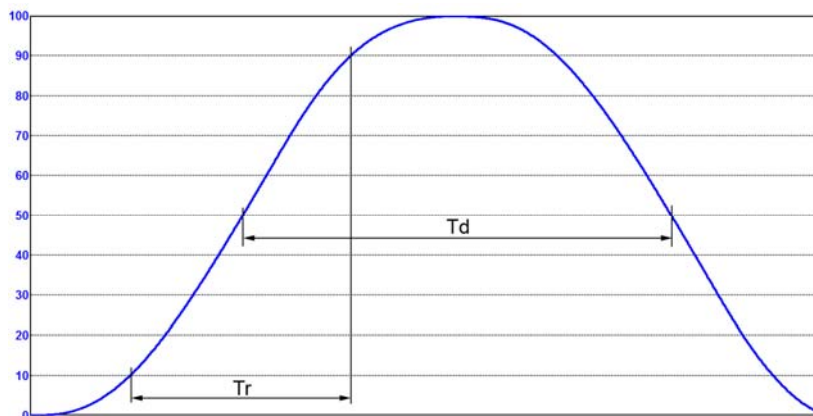
**Definition of the waveform and of the rise time / fall time / duration of the pulse**



*Double exponential waveform*



*Rectangular waveform*



*Gaussian waveform*