

The invention relates to electric measuring equipment. One electric pulse with duration  $\tau_n$  is fed to input of diode-capacitor memory cell with chain charge constant  $1/\gamma$  and by value of voltage on capacitor  $U_n$  one determines peak voltage of electric pulse  $U_n$ . Input electric pulse is transformed to two electric pulses  $I_1$  and  $I_2$  with same duration and same amplitude that is equal  $U_n/k$ , where  $k$  - device constant, one feeds first pulse to input of diode-capacitor memory cell, with delay of second pulse by time  $\Delta t$ , that is smaller than duration of initial pulse  $\tau_n$ , one inverts delayed pulse with feeding it to input of diode-capacitor memory cell, by value of voltage on capacitor  $U_n$ , one determines by means of relation  $U_n = kU_n(1 - e^{-\gamma \Delta t})^{-1}$  peak voltage of initial electric pulse.