Capacitor Charging
HIGH VOLTAGE POWER SUPPLY
Application Questionnaire

Briefly describe how the High Voltage Power Supply will be used:_____

_____

_____

_____

Key:

P_{rr} = Pulse Repetition Rate (Hz): Repetition rate of charge cycle.
t_c = Charge Time (seconds): Rise time required to charge C to V_{pk}.
t_d = Dwell Time (seconds): Time after the charge is complete and before discharge occurs.
t_D = Dead Time (seconds): Time between discharge and next charge.
C = Capacitance (Farads): Capacitor or total capacitance to be charged.
V_{pk} = Charge Voltage (Volts): Maximum charge level.
E = Energy (Joules)
P_{avg} = Average Power (Watts)
P_{pk} = Peak Power (Watts)

Application Requirements:

C = _____

V_{pk} = _____

t_c = _____

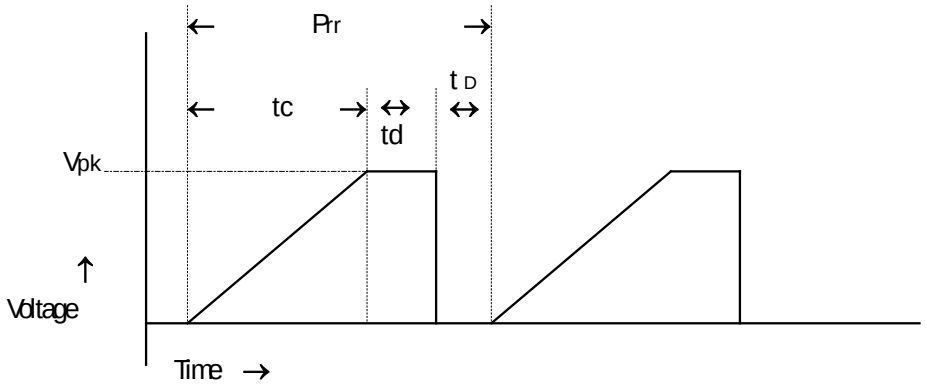
t_d = _____

t_D = _____

P_{rr} = _____

Formulas:

$E = C(V_{pk})^2/2$
$P_{avg} = E * P_{rr}$
$P_{pk} = V_{pk} * I$
$I = CV/t_c$



Spellman High Voltage Electronics Corp.