

Questionnaire for Pulsed Power Applications

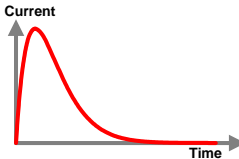
Working in an area where new system designs and experimental systems are invented, we know how difficult it is for the designer and the supplier of components to select the right parts for the application.

Because the selection of components is often not based on datasheet figures, Astrol Electronic AG is offering a service to support customers with the selection of the right switch assembly.

Therefore, please answer the questions below as detailed as possible:

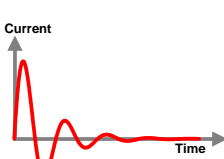
- 1) **Company / Organisation:** _____
Address: _____
City: _____
- 2) **Contact Person:** _____ **Phone:** _____ **E-mail:** _____
- 3) **What is the Application:** _____
- 4) **Which status has the project:**
- Research
 - Development
 - Prototype
 - Series Production

Questions for selecting the semiconductor components or switch assembly:

- 5) **What Power Source is used:** Capacitor: _____ Other(specify): _____
- 6) **Charge Voltage:** _____ V
- 7) **Peak Pulse Current level:** _____ A
- 8) **Please specify current waveform:**
- 

$R^2C^2 - 4LC > 0$

Over damped sine wave:



$R^2C^2 - 4LC < 0$

Under damped sine wave:

Other: Please attach sketch \ circuit of the pulse form

- 9) **Please specify the pulse duration:** $t_p =$ _____ $\mu\text{sec to peak}$ _____ μs **total**
- 10) **What is the expected initial di/dt value:** $di/dt =$ _____ $\text{kA}/\mu\text{s}$
- 11) **What is the pulse repetition rate:** $f =$ _____ Hz
- 12) **Which type of load is used:** _____
- 13) **Is there any reverse voltage from the load?** Yes _____ $\%$ of Charge Voltage No
or _____ V
- 14) **Should the component or switch block full voltage direct after the pulse:** Yes No
- 15) **Must the component or switch be in the position to switch "off" the current:** Yes No

16) How would you trigger the switch:

Optical Electrical

17) How long will the system be in use per day:

Hours per Day

18) How many days per year:

Days per Year

19) Life-time expectation of the system:

Years or:

Pulses

20) Ambient temperature range:

°C

21) Operating temperature range

°C

22) In case cooling should be required, do you prefer:

- Convection Air
- Forced Air
- De-Ionized Water Oil

23) What is the isolation medium:

- Clean air (Indoor cabinet)
- Outdoor (Humid air)
- Air Conditioned area
- Oil immersion
- SF-6 Inert gas

24) What is your time schedule:

25) Any further information which can be important, and please add a circuit diagram:

Please return the filled-in questionnaire to:

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