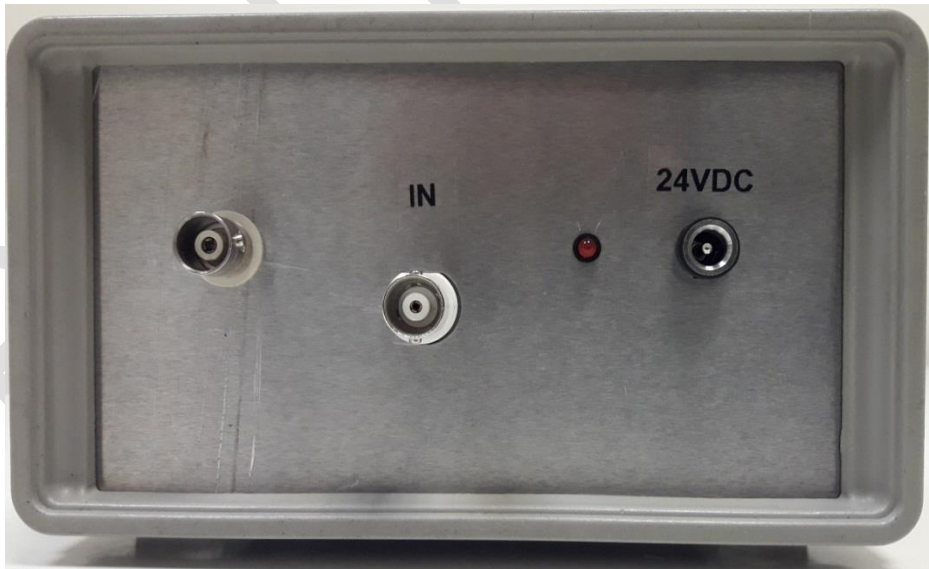


Q-SWITCH DRIVER



1. Features

Q-Switch Driver is based on the most modern technology provided a solid state high voltage switching design :

- Rise/Fall time < 10 ns
- Repetition Rate – up to 100 kHz (and more with cooling)
- Pulse Duration – \geq 100 ns
- Output Pulse Measurement
- Air Cooling
- Double Protection against fault operation :
 - Maximum Input Repetition Rate (limited by Heatsink Temperature under normal external conditions)
 - Over Temperature under abnormal external conditions

Q-Switch Driver is functioned with :

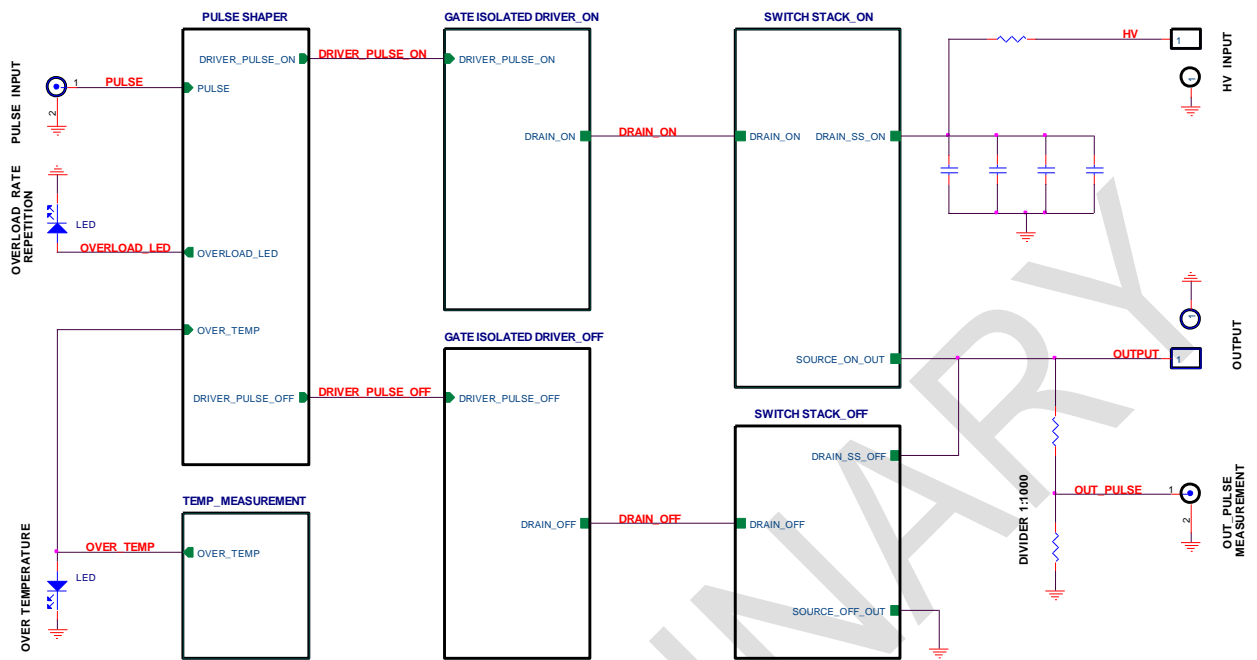
- External High Voltage Power Supply up to 4.0 kV
- External wall mount 24VDC Power Supply
- External Pulse Generator for setting the Repetition Rate and Pulses duration time

Option : Driver may be integrated with internal High Voltage Power Supply

2. Applications

- Drive for Pockels Cells
- Imaging
- Laser Cutting
- Range finding
- Medical

3. Block Diagram



4. Q-Switch specification

Output Pulse Parameters	Min	Max	Units
Pulse top duration	≥ 100		ns
Pulse rise time	<10		ns
Pulse fall time	<10		ns
Pulse voltage	0.5	3.9	kV
Load capacitance	≥ 25		pF
Input Pulse Parameters	Min	Max	Units
Pulse voltage	3	5	V
Input impedance	50	High	Ohms
Environmental	Min	Max	Units
Temperature	0	35	° C

An OEM version with the same electrical performance is available for inclusion in the laser product