

# Q-Switching Kits

POCKELS CELLS

POCKELS CELLS DRIVERS

HV POWER SUPPLIES

Q-SWITCHING KITS

ULTRAFAST PULSE PICKING SYSTEMS

LASER DIODE DRIVERS

LASER SYNCHRONIZATION MODULES

CRYSTAL OVENS

## QKD

## KD\*P POCKELS CELL Q-SWITCHING KIT

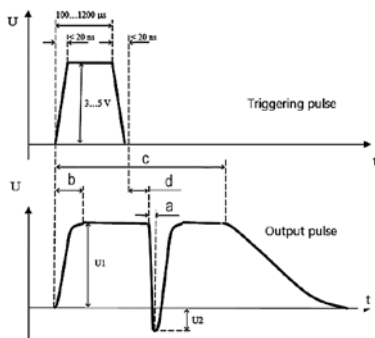
### FEATURES

- Pulse repetition rate up to 200 Hz
- Q-switching without retardation plate

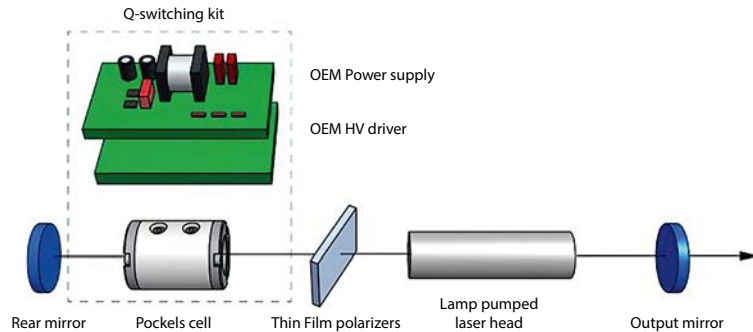
OEM QKD series Pockels cell kits are designed to be used with lamp pumped nanosecond lasers. High voltage is applied to DKDP (KD\*P) Pockels cell through DQF Pockels cell driver in order to inhibit oscillation. Pockels cell is opened by negative polarity pulse allowing laser to radiate.

### DKDP POCKELS CELLS Q-SWITCHING KIT INCLUDES:

- Low repetition rate Pockels cell driver (see page 18)
- High voltage power supply for Pockels cell driver (see page 19)
- KD\*P Pockels cell (see page 5)



Time diagram of DQF Pockels cell driver



Typical Q-switching with DKDP or BBO Pockels cell in  $\lambda/4$  scheme

### ORDERING INFORMATION

MODEL	QKD-01	QKD-02	QKD-03
Wavelength	1064 nm		
Operation	quarter wave, $\lambda/4$		
Repetition rate	up to 200 Hz		
Clear aperture	4.5 x 4.5 mm	Ø 8 mm	Ø 11 mm

## QKB

## BBO POCKELS CELL Q-SWITCHING KIT

### FEATURES

- Pulse repetition rate up to 100 kHz
- Up to 10 kHz no external cooling is required
- Fast HV rise time <7 ns

OEM QKB series Pockels cell kit is designed for Q-switching of high repetition rate nanosecond lasers and mode locked lasers.

### BBO POCKELS CELLS Q-SWITCHING KIT INCLUDES:

- High repetition rate Pockels cell driver (see page 17)
- High voltage power supply for Pockels cell driver (see page 19)
- BBO Pockels cell (see page 7)

### ORDERING INFORMATION

MODEL	QKB-01	QKB-02
Wavelength	1064 nm	
Operation	quarter wave, $\lambda/4$	
Repetition rate	up to 100 kHz	
Clear aperture	Ø 2.5 mm	Ø 3.5 mm