



Pockels Cell Module PCM-20200624



PCM module for completely enclosed beam, allowing controlled air-flow along beam path

- ▶ **mini-clean room environment:** overpressure prevents dust from entering
- ▶ **water cooled apertures** to protect BBO crystals
- ▶ interface for connecting additional modules, SM1 mounted optics or window
- ▶ **easy alignment/exchange** of pre-aligned BBO crystals mounted in **removable holder**
 - ▶ damage threshold < 500 MW/cm² for 10 ns, 10 Hz
 - ▶ crystal vibration damped, for MHz operation*
 - ▶ apertures of 6 mm, 9 mm and 12 mm available
 - ▶ HR coating for 1030 nm

**patent application DE 10 2013 012 966.4*

- ▶ sensors: damage detection of optics + NTC + SHT21, no cable and tubes in beam area
- ▶ basic self status check, interface via **CAN BUS**

HV switch

- ▶ to be installed in compartment below optical base plate or next to Pockels cell module
- ▶ for kHz (< 50 kHz) or optionally MHz operation
- ▶ prepared for **GALDEN®** cooling of driver for operation at > 1 kHz

HV supply unit for installation in rack



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