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** on both sides 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

- 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

*patent application DE 10 2013 012 966.4

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