Inradoptics

BBO Pockels Cells

BBO Pockels Cells target operating wavelengths from the UV to roughly 2 µm. BBO crystals handle shorter wavelengths, high average powers and high repetition rates better than other electro-optic materials, but typically require higher voltages to operate due to the relatively low electro-optic coefficient of BBO.

PBCX1 Compact Series

These cells are single-crystal, transverse-field, capacitive devices, suitable for both laboratory and OEM applications, typically at quarter-wave voltages.

Specifications

Mechanical aperture sizes	**2.5 and 3.5**
Standard application wavelengths	**1064nm** **532nm** **355nm** **266nm**
Transmission @1064nm	**> 98%**
Extinction ratio @1064nm	**> 1000 : 1**
Terminals	**#4-40 threaded posts**

Quarter-wave voltage @1064nm	**3.6 and 4.8kV**
Capacitance	**3pF**
Wave front distortion @1064nm	**λ/8**
Damage thresholds @1064nm (*):	
Peak power, 10ns pulses	**> 500MW/cm^2**
Average power (CW)	**> 3kW/cm^2**

(*) Typical values, Inrad Optics does not offer warranty for optical damage

Dimensional Drawing