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.

PBC05 Standard Series

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

Specifications

Mechanical aperture sizes	**2.5 and 3.5mm**	**Quarter-wave voltage @1064nm**	**3.6 and 4.8kV**
Standard application wavelengths	**1064nm** **532nm** **355nm** **266nm**	**Capacitance**	**3pF**
		Wave front distortion @1064nm	**λ/8**
Transmission @1064nm	**> 98%**	**Damage thresholds @1064nm (*):**	
		Peak power, 10ns pulses	**> 500MW/cm^2**
Extinction ratio @1064nm	**> 1000 : 1**	**Average power (CW)**	**> 3kW/cm^2**
Terminals	**Mini Banana Plugs**		

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

Dimensional Drawing