



BPU series of BBO based Pockels Cells with large aperture has been specifically designed to satisfy the demands of high pulse energy. Operated by IPO's fast switching electronic drivers, BPU devices deliver top-industrial laser reliability and performance for high power and high pulse repetition rate lasers at the wavelengths from 190nm to over 2.2μm.

Our BPU devices rely on the Pockels effect applied cooling system and a variety of new materials to utmost suppressing heating especially for the request of High power Ultra-fast lasers. To compensate the high voltage request for the low electro-optical coefficient of BBO, the double crystal design half the switching voltage, to benefit on expediting the switching times and repetition rate.

FEATURES

Large aperture BBO based Pockels Cells with water-cooling applied to utmost suppress heating

Great suppression of Piezo effects

High Transmission Rate and low insertion loss

High damage threshold

Reliable structure has been tested up to 700W power with pulse repetition rate up to 500kHz.

Low thermal lensing effect and thermal depolarization phenomena

APPLICATIONS

Pulses coupling application of Picosecond and femtosecond regenerative amplifier

Pulse picking and optical switch

SPECIFICATIONS

MODEL	BPU525-S	BPU525-D	BPU625-S	BPU625-D	BPU825-S	BPU825-D	BPUX25-S	BPUX25-D
Clear Aperture D, mm	4.6	4.6	5.6	5.6	7.6	7.6	9.6	9.6
Quantity of Crystals	1	2	1	2	1	2	1	2
Single Crystal Dimensions, mm	5x5x25	5x5x25	6x6x25	6x6x25	8x8x25	8x8x25	10x10x25	10x10x25
1/4 voltage @1064nm, kV	<4.8	<2.4	<6	<3	<7.8	<3.9	<9.2	<4.8
Extinction Ratio	1000:1	500:1	1000:1	500:1	1000:1	500:1	1000:1	500:1
Transmission Rate, %	>99							
Capacitance, pF	6							
Power Holding, W	Up to 700W							

DIMENSIONS

	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
BPU525-S	67.5	4.6	30	22.1	62.25	4	60	M3	25
BPU625-S	67.5	5.6	30	23.1	62.25	4	60	M3	25
BPU825-S	67.5	7.6	30	25.1	62.25	4	60	M3	25
BPUX25-S	67.5	9.6	30	27.1	62.25	4	60	M3	25

	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)
BPU525-D	67.5	4.6	30	22.1	62.25	4	60	M3	25	100
BPU625-D	67.5	5.6	30	23.1	62.25	4	60	M3	25	100
BPU825-D	67.5	7.6	30	25.1	62.25	4	60	M3	25	100
BPUX25-D	67.5	9.6	30	27.1	62.25	4	60	M3	25	100

