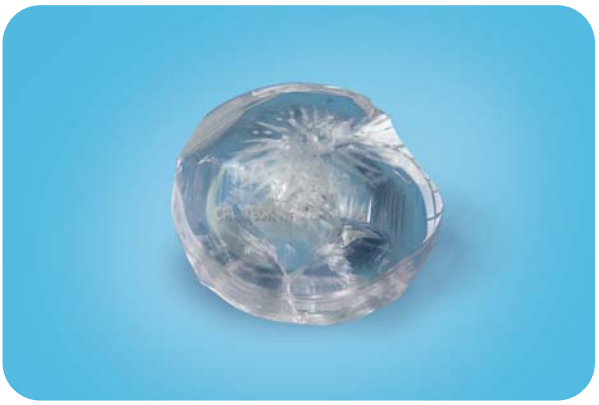
BBO

CRYSTECH
青岛海泰光电技术有限公司



Applications

- SHG@800nm --->400nm
- THG@1064nm --->355nm
- SHG@532nm --->266nm

Mainly used for fs laser and UV Laser

Advantages

- Wide phase matching bandwidth (410 – 2100nm)
- Wide transmission bandwidth (190 – 3500nm)
- High damage threshold (1GW/cm² , 10ns, 10Hz at 1064nm)
- Broad temperature bandwidth (55℃)

Specifications

Dimension Tolerance	W(+/-0.1)*H(+/-0.1)*L(+0.5/-0.1)mm		
Angle Tolerance	+/-0.25°	Perpendicularity	≤10′
Surface Quality	20/10	Chamfer	≤0.2mmx45°
Parallelism	≤10″	Chips	≤0.1mm
Flatness	λ/10@633nm	Clear Aperture	≥90%
Wavefront distortion	λ/8@633nm		
Coatings	C1--- AR/AR@532(R<0.2%)&266(R<0.5%) C2--- AR/AR@1064(R<0.2%)&532(R<0.5%)&355(R<0.5%) C3--- Pcoating/Pcoating		
Damage Threshold	1GW/cm² (1064nm, 10ns, 10Hz)		

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Standard Products

P/N	Orientation	Size(mm)	Coating	Application
BBO-X-447-C1	Θ=47.7°φ=0°	4x4x7	AR/AR@532&266nm	SHG@532nm
BBO-X-557-C1	Θ=47.7°φ=0°	5x5x7	AR/AR@532&266nm	SHG@532nm
BBO-X-667-C1	Θ=47.7°φ=0°	6x6x7	AR/AR@532&266nm	SHG@532nm
BBO-Y-447-C2	Θ=31.3°φ=0°	4x4x7	AR/AR@1064&532&355nm	THG@1064nm
BBO-Y-557-C2	Θ=31.3°φ=0°	5x5x7	AR/AR@1064&532&355nm	THG@1064nm
BBO-Y-667-C2	Θ=31.3°φ=0°	6x6x7	AR/AR@1064&532&355nm	THG@1064nm
BBO-Z-55005-C3	Θ=29.2°φ=0°	5x5x0.05	Pcoating/Pcoating	SHG@800nm
BBO-Z-5505-C3	Θ=29.2°φ=0°	5x5x0.5	Pcoating/Pcoating	SHG@800nm
BBO-Z-551-C3	Θ=29.2°φ=0°	5x5x1	Pcoating/Pcoating	SHG@800nm
BBO-Z-66005-C3	Θ=29.2°φ=0°	6x6x0.05	Pcoating/Pcoating	SHG@800nm
BBO-Z-6605-C3	Θ=29.2°φ=0°	6x6x0.5	Pcoating/Pcoating	SHG@800nm
BBO-Z-661-C3	Θ=29.2°φ=0°	6x6x1	Pcoating/Pcoating	SHG@800nm
BBO-Z-1010005-C3	Θ=29.2°φ=0°	10x10x0.05	Pcoating/Pcoating	SHG@800nm
BBO-Z-101005-C3	Θ=29.2°φ=0°	10x10x0.5	Pcoating/Pcoating	SHG@800nm
BBO-Z-10101-C3	Θ=29.2°φ=0°	10x10x1	Pcoating/Pcoating	SHG@800nm

P/N Rules

BBO	X	447	C1
material	application	size	coating

X --- Theta=47.7°	Phi=0°	SHG@532nm	Type I application
Y --- Theta=31.3°	Phi=0°	THG@1064nm	Type I application
Z --- Theta=29.2°	Phi=0°	SHG@800nm	Type I application

Non-Standard Products

Please contact us for customized products

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