

**Dayoptics Diffusion Bonding Crystals** are crystals consisting of two, three or more parts with different dopant levels. Usually, doped and undoped materials are used. Diffusion Bonding Crystals are used to decrease effectively heat effect of Solid-State High-Power Laser.



**High Power Laser Crystals (Diffusion Bonding)**

- YAG + Nd:YAG + Cr<sup>3+</sup>:YAG
- Nd:YAG + Cr<sup>3+</sup>:YAG
- Nd:YVO<sub>4</sub> + YVO<sub>4</sub>
- Nd:YAG + YAG

**High Power Nonlinear Crystals**

- BBO (as long as 50 mm)
- LBO (as long as 50 mm)

	Nd:YAG	Nd:YAG+YAG	YAG+Nd:YAG+YAG
Type			
Uniform of temperature			
High temperature	108.7	88.7	87.7
Beam Quality	Bad	Good	Better
Life Time	Normal	Long	Longer
Damage threshold	Normal	High	Higher
Transmssion	84.7%±0.3%	84.7%±0.3%	84.7%±0.3%

