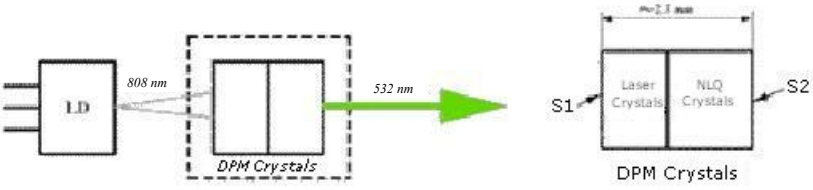
Power DPM Crystal



Diode-Pumped Solid State (DPSS) lasers are the ideal laser tools of machining, material processing, spectroscopy, wafer inspection, light show, medical diagnostics and other applications. DPM (Diode-Pumped Microchip laser) crystals, which combine Nd:YVO4 and KTP, has been developed. The DPM crystals are mainly used for low power applications, for example, the Green Laser Pointers.
The pump power for the Low Power DPM crystals is suggested to be less than 300mW, and the generated green output power could be less than 10mW. And a heat deposit mechanics is needed.

DPM Efficiency Curve

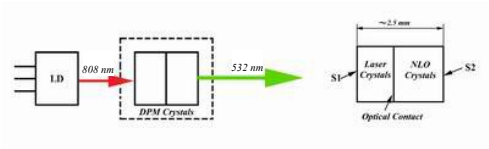
Specification

Parallelism	Less than 5 arc second
Coatings	Incident Surface: HR R>99.8% @1064nm HT R<5% @808nm HR R>99% @532nm Output Surface: HR R>99.8% @1064nm HT R<5% @532nm
Output Wavelength	532nm
Beam Mode	TEMoo
Output Power	Less than 10mW

Standard products

P/N	Clear Aperture (mm)	Length (mm) (Nd: YVO4 + KTP)	Total Size (mm)
DPM-1-2.5	1x1	0.5 + 2	1x1x2.5
DPM-1.5-2.5	1.5x1.5	0.5 + 2	1.5x1.5x2.5

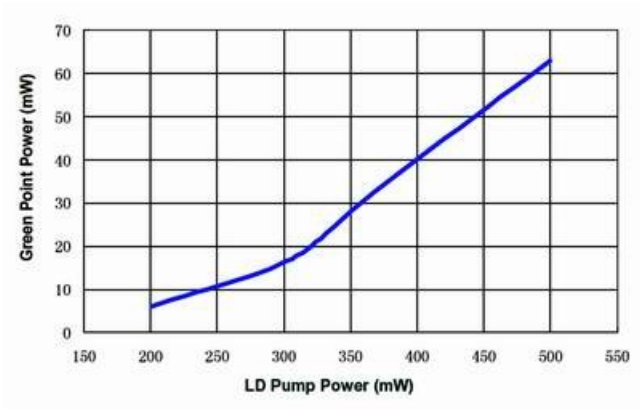
High Power DPM Crystal



Another type of DPM (Diode-Pumped Microchip laser) crystal is now available for high power Diode Pumped Green Lasers. It consists of Nd:YVO4 and KTP, can used for high pump power, and generated high power green laser output. The typical pump power is suggested to be less than 500mW, and the generated green output power could be about 60mW. And a heat deposit mechanics is needed.

This DPM microchip lasers could be used in some laser display systems, for example: Green Laser Module, 3D lasers, Club lasers and Disco lasers.

DPM Efficiency Curve



Specification

Parallelism	Less than 5arc second
Coatings	Incident Surface: HR R>99.8% @1064nm HT R<5%@808nm HR R>99% @532nm Output Surface: HR R>99.8% @1064nm HT R<5%@532nm
Output Wavelength	532nm
Beam Mode	TEM00
Output Power	5mW ~ 60mW

Standard products

P/N	Clear Aperture (mm)	Length (mm) (Nd: YVO4 + KTP)	Total Size (mm)
DPM-1-2.5H	1x1	0.5 + 2	1x1.5x2.5
DPM-1.5-2.5H	1.5x1.5	0.5 + 2	1.5x2x2.5