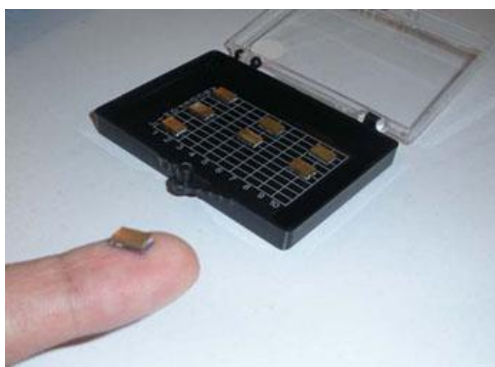
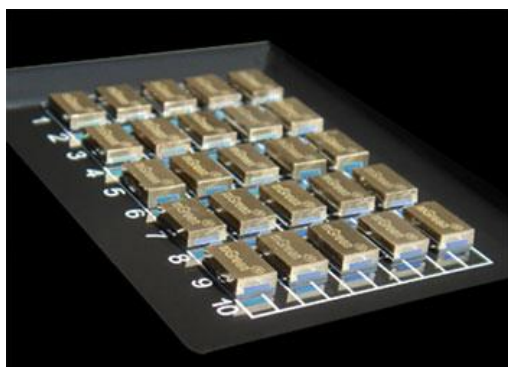
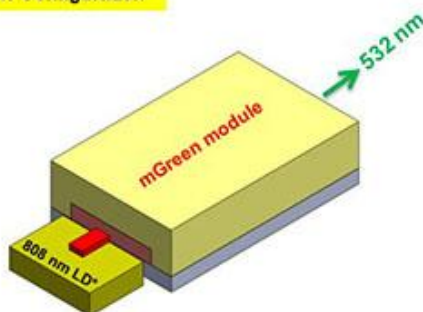


## MgO:PPLN+Nd:YVO4 modules for 500-1000mW 532nm Laser

### Generations

MgO:PPLN crystals are used as the frequency conversion element, which converts 1064nm laser to 532nm laser, the 1064nm laser is generated from Nd:YVO4 crystals pumped by 808nm LD, the **PPLN crystals** and Nd:YVO4 crystals are integrated and assembled with the copper heat-sink. The coating on the input surface and output surface form a laser cavity automatically, makes the mirrors unnecessary, it is compact in size with output laser power of 500mW to 1000mW. It is alignment-free element, easy to be integrated to your laser system.

Typical Application Configuration



## SPECIFICATIONS

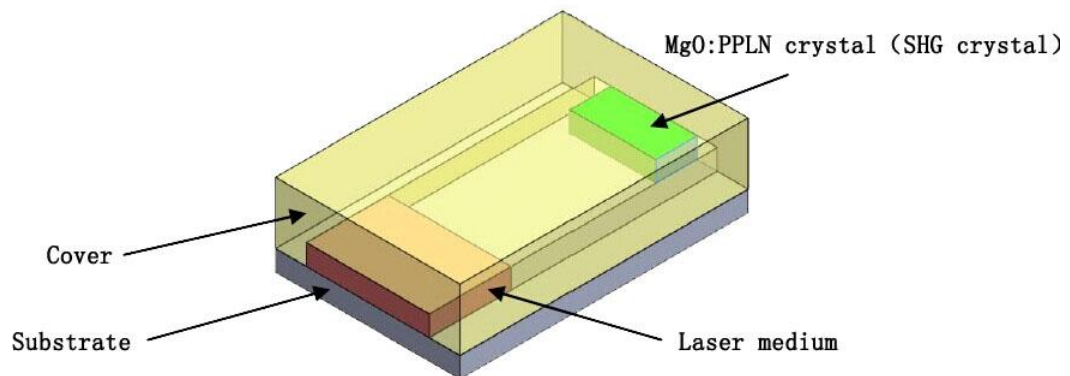
Specifications	
Module Length	7.0mm
Module Width	4.5mm
Module Thickness	2.0mm
Input Surface Coating	HT@808nm+ HR@1064nm+HR@532nm
Output Surface Coating	HR@1064nm+ HT@532nm
Optical to Optical Efficiency	<sup>3</sup> 20%
Operation Temperature	20~40° C
Temperature Tolerance	> 25° C

## Features

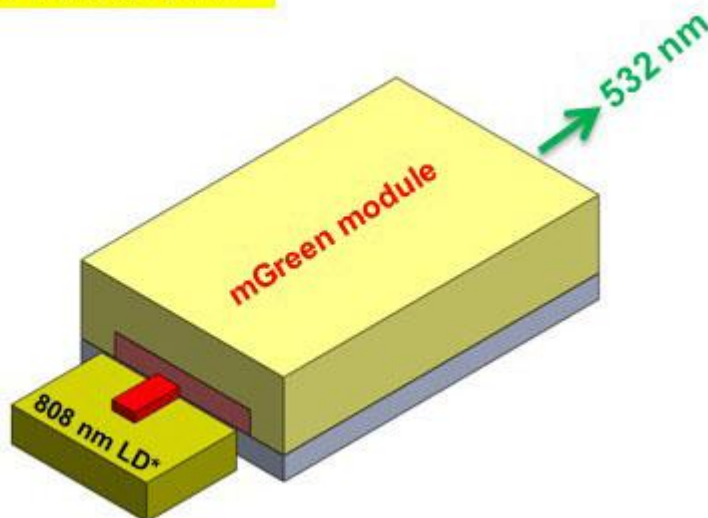
- Low cost
- High output power and high efficiency
- Compact and small in size
- No mirrors and alignment-free
- Easy to be integrated into your system

## Application Notes

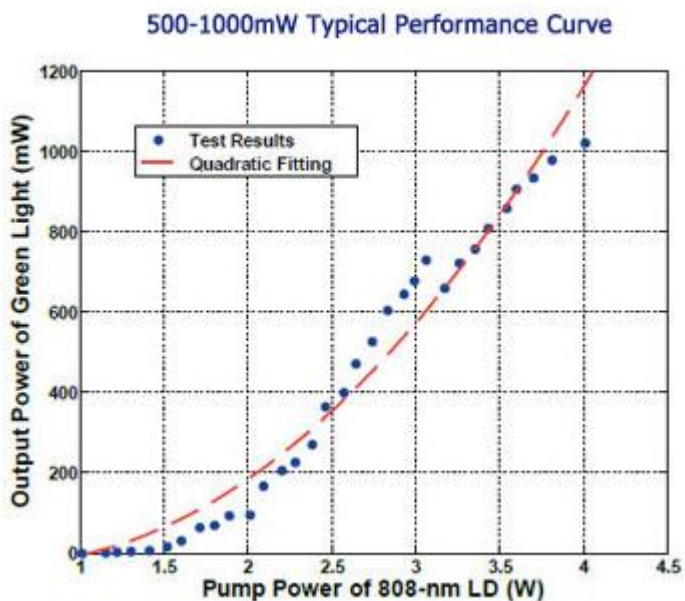
### 1. Modules structure and typical application configuration



**Typical Application Configuration**



**2. Output power to LD input power response curve**



\* 808-nm LD with fiber fast axis collimation. Vertical polarization of pump provides better performance.