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### Crystal Products

- Laser Crystals
- Non-Linear Optical Crystals
- Birefringent Crystals
- <u>IR Crystals</u>

### • Glass Optics

- Laser Optics
- Telecom Optics
- Surveying Optics
- Display Optics
- Medical & Biomedical Optics
- <u>Instrument Optics</u>

### Fiber Optics and Subs

- <u>Pigtails</u>
- Collimators
- Isolators
- Fused Fiber couplers and WDMs
- <u>Micro-Optics components : In-line Isolators / Free-space Isolators / Hybrid Devices</u>
- Opto-mechanical(MOM) fiber optic switches
- Variable Optical Attenuators (VOAs)

### • Coatings

DUV coating

## Glass Components

- Ferrules and Sleeves
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# **DPM Crystals**

Diode-Pumped Solid State (DPSS) lasers are the ideal laser tools for applications such as pointing light shows, machining, material processing, spectroscopy, wafer inspection and medical diagnostics. Casix's Diode-Pump Microchip (DPM) crystal assemblies combine Nd: YVO<sub>4</sub> and KTP and act as the laser core for green DPSS lasers. Applications for DPMs include green laser pointers, laser displays, DPSS green lasers and surveying laser systems.

#### Suggested applications

- Pump power for the low power DPM crystals is less than 300mW and the generated green output power can reach 10mW
- Pump power for the middle power DPM crystals is less then 500mW and the generated green output power can reach 60mW.
- Pump power for the high power DPM crystals is less then 600mW and the generated green output power can reach 100mW. Heat deposit mechanics are needed.

#### **Capabilities**

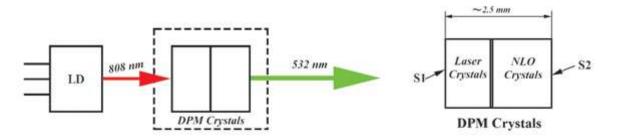
Additional YVO<sub>4</sub> crystal and coating specifications are available upon request.

ATTRIBUTE COMMERCIAL HIGH PRECISION

**Parallelism** 10 arc seconds 5 arc seconds

Output Wavelength 532nm
Mode TEM00 TEM00

**Pump Power** 200mW; 300mW 200mW; 300mW **Output Power** >2.5mW; >20mW >5mW; >30mW



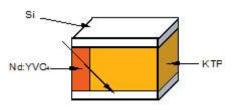
# **High Performance Diode-pumped Microchip Crystal (Green DPM)**

### **Application**

- Mini-Projector
- Display Laser
- DPSS Green Lasers
- Surveying Laser system
- Defence Laser System

#### **Feature**

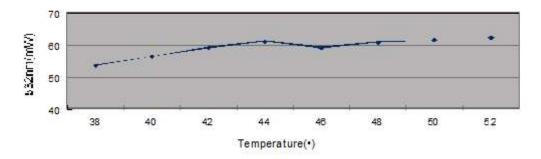
- Output Power 532nm (mW): >40
- Conversion Efficiency: >20%
- Dimension: 2x2.5x2.5mm
- Polarization Ratio: >10:1
- Operating Temperature at crystal surface(•): 35-50
- Output Beam Quality: TEM00



#### **Data Curve**

- Output Power VS Temperature at 300mW Pumping Power
- Output Power VS Temperature at 300mW pumping Power

#### Output Power VS Temperature at 300mW Pumping Power



### Advantage

- High Conversion Efficiency
- High Extinction Rate
- Wider Temperature Range

# **Product Categories**

- Crystal Products
- Glass Optics
- Fiber Optics and Subs
- <u>Coatings</u>
- Glass Components

## **Crystal Products**

**Laser Crystals** 

Nd: YVO4 Crystal

Nd: GdVO4 Crystal

**DPM Crystal** 

**Nd: YAG Crystal** 

**CR4: YAG Crystal** 

**Non-Linear Optical Crystals** 

**Birefringent Crystals** 

**IR Crystals** 

