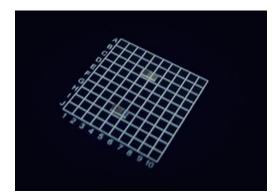
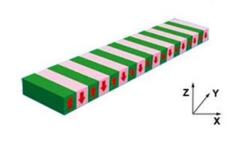


- High efficiency
- Small size
- Easy to be assembled into DPSS laser

Shalom EO

MgO doped periodically poled lithium niobate (or MgO:PPLN crystals) is a highly efficient nonlinear frequency conversion crystal. It can be used as SHG, DFG, SFG, OPO and OPA components in lasers. Hangzhou Shalom EO offers the MgO:PPLN crystal of SHG of 1550nm laser which can generate 775nm laser. The crystals is small in size and easy to be assembled into your DPSS laser systems.





## **SPECIFICATIONS**

Optical Specifications		
Length	0 ~ 40mm	
Width	2.5mm	
Thickness	0.5mm	
Coating on Input facet	AR@1550nm + AR @775nm	
Coating on Output facet	AR@1550nm + AR@775nm	
Operation Temperature	40°C and 50 °C	

**Note:** The PPLN crystals with the Copper heat-sink packing is available.

Polishing Specifications		
Tolerance of Size	(Width±0.1mm) x (Thickness±0.05mm) X (Length±0.1mm)	
Flatness	< Lambda/8 @ 633nm	
Wavefront Distortion	< Lambda/6 @ 633nm	
Chips	<0.1mm	
Surface Quality	20/10 S/D	
Parallelism	<10"	
Perpendicularity	<10'	



## **Basic Properties**

Chemical and Physical Properties		
Melting Point	1255+/-5 °C	
Curie Point/Temperature	1140+/-5 °C	
Mohs Hardness	5	
Density	4.648(5)g/cm3	
Thermal conductivity	38W/m/K @ 25 °C	
Coefficient of thermal expansion	//a, 2.0x10-6/K	
	//c, 2.2x10-6/K	

Optical and Nonlinear properties		
Wavelength range of Transmission	420nm ~ 5200nm	
	d33 = 34.4 pm/V	
Nonlinear coefficient	d31 = d15 = 5.95 pm/V	
	d22 = 3.07 pm/V	
Optical Damaging Threshold	0.3GW/cm2	
Absorptive Coefficient	0.004/cm @ 1064nm	

## **Application Notes**

