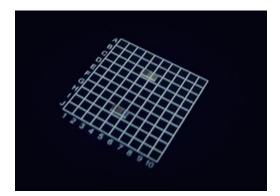
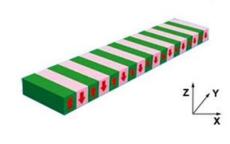


- High efficiency
- Small size
- Easy to be assembled into DPSS laser

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

