

ZGP晶体具有非线性大、吸收低、热导率高等特点，晶体是目前实现高功率中、远红外可调谐激光输出的最佳非线性材料之一。以二极管泵浦固体激光(DPL)泵浦ZGP晶体(或ZnGeP2晶体,磷锗锌)，采用光参量变换技术(OPO)可以实现宽调谐中、远红外激光输出，且具有工作稳定可靠、体积小、重量轻及全固化等优点，在核突防红外对抗和激光干扰、致盲等方面有重要应用前景。

ZGP crystal has the characteristics of large nonlinearity, low absorption and high thermal conductivity. It is one of the best nonlinear materials for high-power mid- and far-infrared tunable laser output. The diode-pumped solid-state laser (DPL)pumped ZGP crystal, using optical parametric conversion technology(OPO) can realize wide tuning, far-infrared laser output, and has the advantages of stable and reliable operation, small size, light weight and full curing. It has important application prospects in nuclear penetration and infrared interference, laser interference and blindness.

主要特点 Features

- 无压电效应

Large nonlinear coefficient

- 低插入损耗

Low absorption rate

- 温度补偿设计

High thermal conductivity



性能参数:

Flatness	$\lambda/8$ at 633nm
Parallelism	≤ 30 arcsec
Wavefront Distortion	$\lambda/8$ at 633nm
Surface Quality	10-5
Perpendicularity	≤ 15 arcmin
Angle tolerance	$\leq \pm 0.5^\circ$
Dimension tolerance	± 0.1 mm
ClearAperture	90% of central area
Chamfer	≤ 0.2 mmx 45°
Chip	≤ 0.1 mm