

Anhui Crystro Crystal Materials Co., Ltd.

LGS Electro-optical Pockels Cell

Introduction:

LGS electric-optical Pockels Cell is a new type of Q-switch designed by using of La₃Ga₅SiO₁₄ (LGS) crystal. LGS crystal is one kind of optical material with very high damage threshold (about 9 times as that of LN), excellent E-O coefficient, high temperature stability. The LGS series Q switch (Pockels Cell) is a practical electric-optic device that can be used for medium output energy lasers, and partially take place of DKDP、RTP and LiNbO3 series Q-switches.



Main Advantages:

- For wavelength up to 3.2µm
- Transmitted Wave Front Distortion <1/4
- Damage threshold >900MW/cm²(@1064nm,10ns)
- LGS partially replacing DKDP and LiNbO3 series Q-switches

Crystro offers:

Crystal Dimension	2 x 2 - 8 x 8 mm
Shell Dimension	20-35 mm
Typical Aperture	8mm-20mm
Extinction Ratio	> 500:1
Wave Front Distortion	<√6 @ 633nm
Transmission	> 98% @ 1064nm
Inter-electrode Isolation	<1
Surface Quality	20-10 (after coating 40-20)
Capacitance	8 pF
AR Coating	AR/AR @ 1064nm (R<0.2%) other wavelength upon request
Damage Threshold	900MW/cm ² 10ns 10Hz 1064nm

Note: Above parameters for reference only, please contact our sales Rep. for your specific requirement.





