



GEM Acoustic optics Q switch (spare parts)

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OVERVIEW

The acousto-optic Q switch is a functional element that acts as a controlled variable loss in the laser cavity. The laser pulse can be used to convert the continuous laser power output into laser pulse output with high peak power, Our company developed the sound and light Q switch. The use of patented technology, high efficiency shutdown, the required drive power is small, reliable high.

FEATURES

- using domestic quartz crystal to replace the commonly used fused silica crystal, as the sound and light medium. Its excellent performance, Low price, switch more efficient.
- simplifies the cooling of the waterway, to avoid the congestion caused by complex waterways, thereby reducing the probability of heat damage to the switch.
- for multi-mode non-polarized solid-state lasers, small polarized / unpolarized solid-state diode-pumped lasers;
- fiber coupling: Q switch and single-mode fiber coupling;

SPECIFICATIONS

project	Acoustic optics Q switch
Working medium	Quartz crystal
Laser wavelength	1064nm
Plus anti-coated	Multilayer media dura mater
Transmittance	>99.9
Film failure threshold	>500MW cm-2
Insert loss	≤5%
VSWR	≤1.2:1
Overheating protection point	+55℃
Water cooling requirements	Water speed: >150cc/min; Water temperature: ≤40℃

Applications

Widely used in laser ranging, communication, fine machining and medical equipment and other fields, such as can be applied to lamp-pumped and diode-pumped 1064nm Nd: YAG laser