

HIGH SPEED OPTICAL CHOPPER



PRODUCT BULLETIN

Hinds Instruments introduces a high speed optical chopper for precision chopping at 50 kHz with a 50% duty cycle. Based on photoelastic modulator technology, the Hinds chopper operates on the principle of resonance, requires low power to operate, has no moving parts and does not produce temperature changes. This system has an extinction ratio of 98% at 633 nm.

Inside the enclosure are all the necessary electronics and optics. A BNC connector provides a reference signal to synchronize with the chopped signal. The chopper is optimized for single wavelength use.

Small size, long life and "out of the box" operation make this system ideal for all applications. This is a proven technology with an extremely robust design and no wearing parts. The versatile Hinds Instruments optical chopper has a standard wavelength range from 400-750nm and can be used with most low- to medium-powered lasers. The HSOC can be used within a +/- 10% range from the center wavelength without a change in calibration.

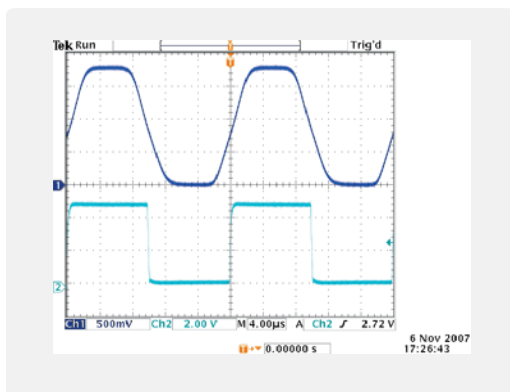


FEATURES:

- Wide acceptance angle
- No moving parts
- Minimal heat generation
- No safety concerns
- Small footprint and lightweight
- Quiet operation
- Low power consumption
- Meets CE and RoHS compliance regulations

OPTIONS:

- 40 or 60 kHz operation
- May be configured for high-powered lasers



Optical chopper waveform seen in the laboratory.