

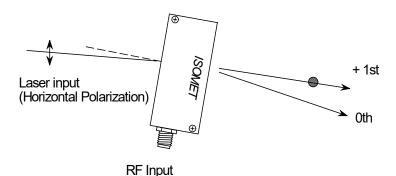
AOTF-1049

ISOMET

Acousto-Optic Tuneable Filter

0421

Features: Fast Tuning
Minimal chromatic dispersion

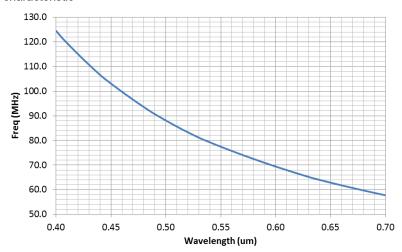


The AOTF-1049 acousto-optic tuneable filter is specifically designed for use with laser sources.

The wavelength of the diffracted light is selected according to the frequency of the RF drive signal. Isometgrown tellurium dioxide (Te0₂), which has been oriented for off-axis mode operation, is utilised as the interaction material. Fast access times and fine spectral bandwidths make these filters ideal for selecting discrete lines from a multi-line laser source.

For <u>horizontal</u> input polarization, the crystal geometry is designed to minimize chromatic beam deflection of the +1st output. Diffracted output polarization rotated to vertical.

Typical tuning characteristic



Suitable electronics include:

- iSK3-100T-1 integrated frequency synthesizer / power amplifier.
- iMS4-L (or-P) fully programmable frequency synthesizer plus AG0-series amplifier.

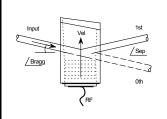
ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.

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Quality Assured. In-house: Crystal Growth, Optical Polishing, A/R coating, Vacuum Bonding



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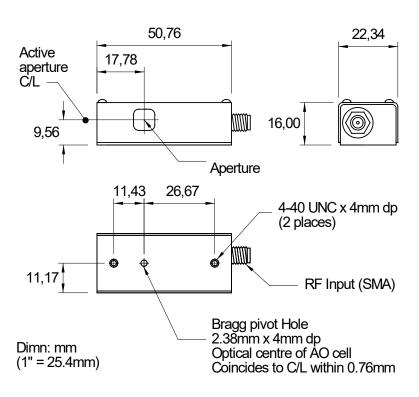
Specifications

Aperture 2.0mm x 2.0mm Wavelength range 450-650nm Incidence Angle 3° nominal

Switching speed < 1usec per mm beam dia.

Static insertion loss < 5%
Diffraction efficiency > 90% / line
Separation Angle (mrad) 5° nominal
Chromatic co-linearity < +/- 0.15mrad

Wavelength (nm) 457 488 515 647 Frequency (MHz) 100.7 91.2 84.4 63.2 Bandwidth (nm) 3.2 4.1 4.8 <90 RF Drive Power (mW) <150 <80 <100



Option -M: metric mounting screws M3

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