

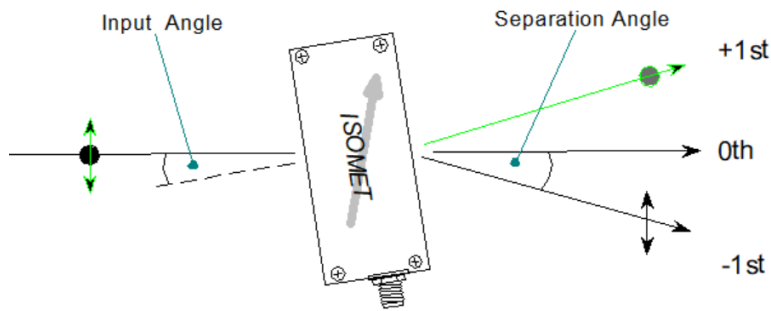
AOTF615-2

Acousto-Optic Tuneable Filter



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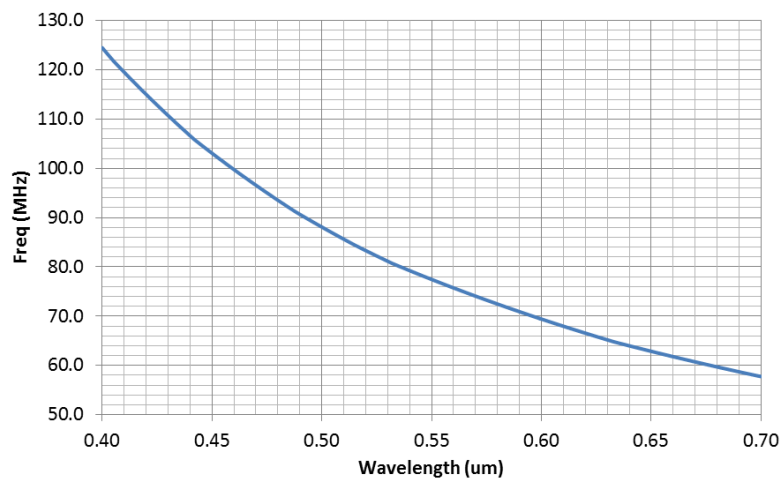
Features: Fast Tuning
Solid State



The AOTF615 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. Isomet Tellurium dioxide (TeO_2), 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.

This model is designed for random polarization and therefore does not include prismatic correction for chromatic deflection of the diffracted outputs. Diffracted outputs are rotated in polarization.

Typical tuning characteristic

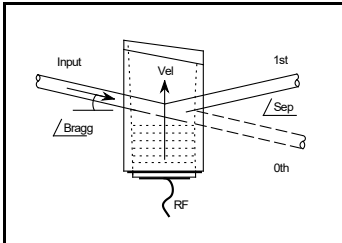


Suitable electronics include:

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

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 ISOMET CORP, 10342 Battlevue 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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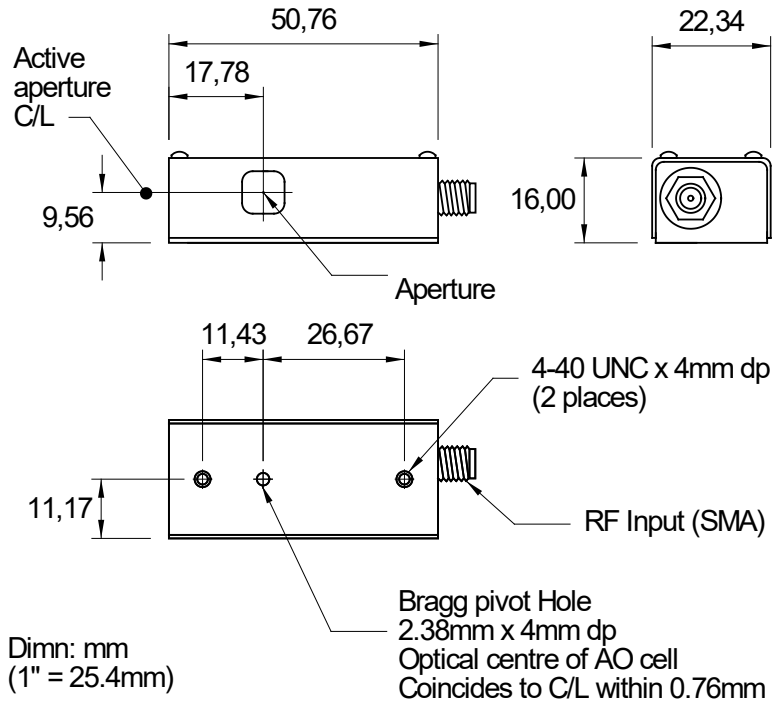


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Specifications

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

Wavelength (nm)	457	488	515	647
Frequency (MHz)	100.7	91.2	84.4	63.2
Bandwidth (nm)	3.2	4.1	4.8	9
RF Drive Power (mW)	<80	<90	<100	<150



Option -M: metric mounting screws M3

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