

AOLF615-1049

Acousto-Optic Line Filter

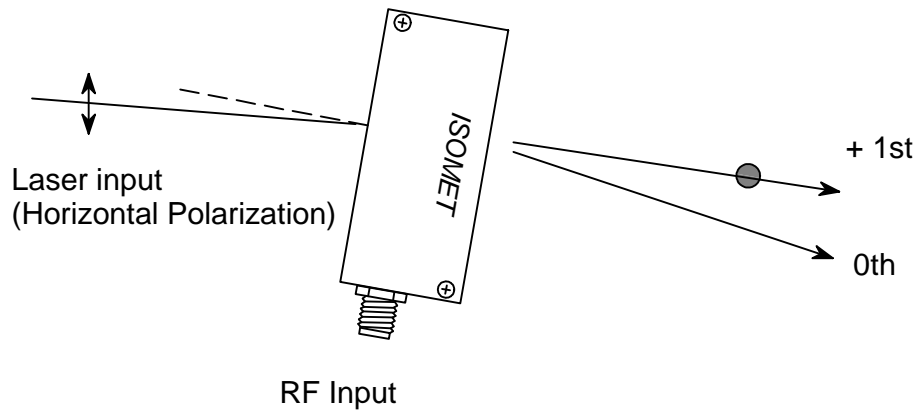


0508

SOLID STATE

FAST ACCESS TIME

MINIMAL CHROMATIC DEFLECTION



The AOLF range of acousto-optic devices are solid-state optical filters, designed for use with laser sources. The wavelength of the diffracted light is selected according to the frequency of the RF drive signal. Isomet-grown 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 sources.

For **horizontal** input polarization, the crystal geometry is designed to minimize chromatic beam deflection of the -1st output.

Suitable drive electronics include the Isomet iDDS-1SE frequency synthesizer plus 502C-L amplifier

Fibre Coupling Option available (see FOA1065)

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.
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Quality Assured.
In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding



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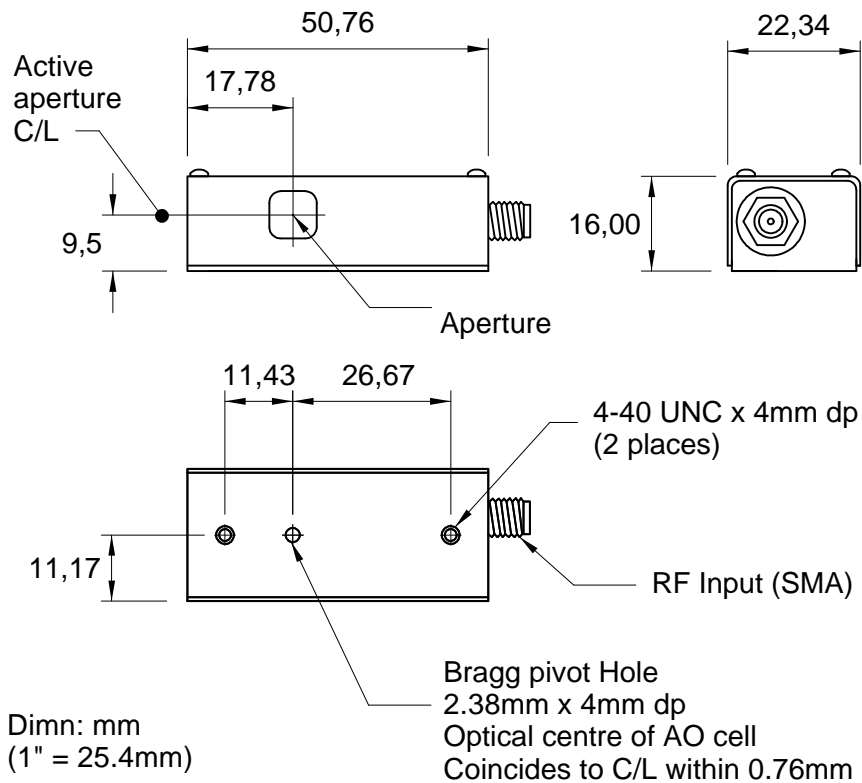


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Specifications

Aperture	2.5mm x 2.5mm
Incidence Angle	5° nominal
Switching speed	< 1usec per mm beam dia.
Static insertion loss	< 5%
Diffraction efficiency	> 90% / line
Separation Angle (mrad)	89.2 mrad
Chromatic co-linearity	< +/- 0.15mrad

Wavelength (nm)	457	488	515	647
Frequency (MHz)	105.5	96	89	66
Bandwidth (nm)	2.5	3	3.7	7
RF Drive Power (mW)	<100	<120	<150	<200



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