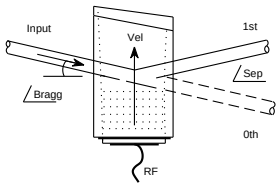



# AOLF615-1082

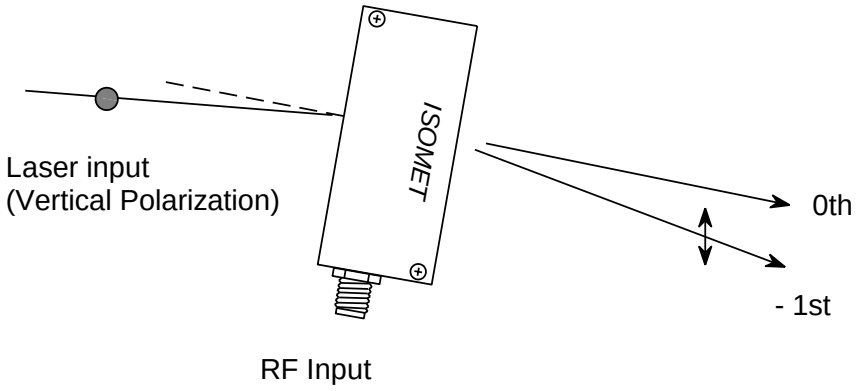
## Acousto-Optic Line Filter

*0117*

**SOLID STATE**

**FAST ACCESS TIME**

**MINIMAL CHROMATIC DEFLECTION**




The AOLF range of acousto-optic tuneable (line) filters are 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-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.

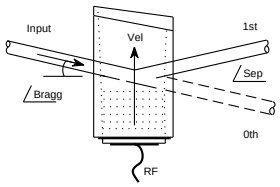
For **vertical** input polarization, the crystal geometry is designed to minimize chromatic beam deflection of the 1st output.

Suitable electronics include the Isomet iSPA-MF4 frequency synthesizer / power amplifier

Fibre coupling option is available.

**ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.
Tel: (703) 321 8301 Fax: (703) 321 8546
***E-mail: ISOMET@ ISOMET.COM*** ***Web Page: WWW.ISOMET.COM***

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




# AOLF615-1082

## Acousto-Optic Line Filter

ISOMET

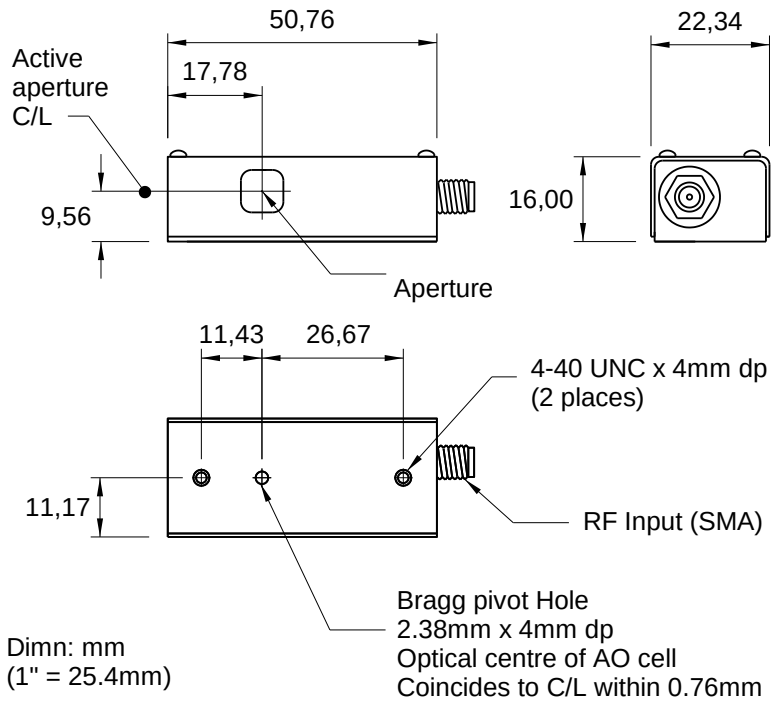
*0117*

### Specifications

| | |
|---|---|
| Aperture | 2.0mm x 2.0mm |
| 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 |

Option –M: metric mounting screws M3

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