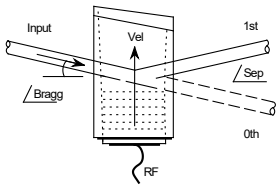


AOTF1423-7

AO Tuneable Filter

(Preliminary)

0621

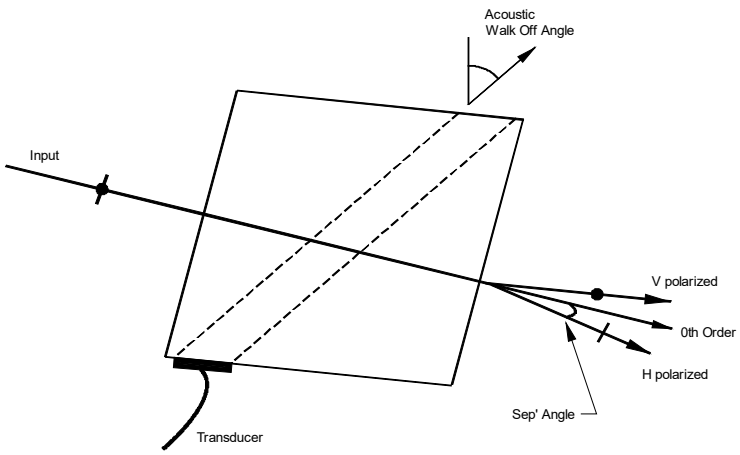
The AOTF1423 Acousto–Optic Tuneable Filter has been optimised for operation in the wavelength range of 2000 nm to 3000nm. The wavelength of the diffracted light is selected by application of a corresponding RF drive frequency. A thermal electric cooler (TEC) is fitted for applications requiring high temperature stability.

SPECIFICATIONS

Interaction Material:	TeO_2 (s)
Aperture:	7mm x 7mm
Wavelength Range:	2000nm - 3000nm
Wave Number:	20/cm
Bandwidth *:	~ 8nm - 18nm
Acceptance Angle (V):	9.0° (nominal)
Acceptance Angle (H):	9.0° (nominal)
Input polarization:	Vertical
Output polarization:	Horizontal
Output:	Collinear with input
Separation Angle:	7.2°
Frequency:	32 - 48 MHz
Diffraction Efficiency:	>50% over filter range
RF Drive Power:	~ 4 Watts at 2.5um

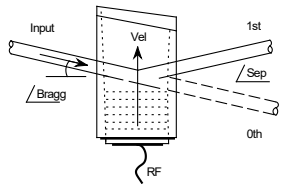
* Bandwidth = Wave Number x wavelength^2
(e.g. in units of nanometres, BW = $20x10^{-7}$ x $3000^{\wedge 2}$ = 18nm)

Conceptual diagram



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109 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



AOTF1423-7

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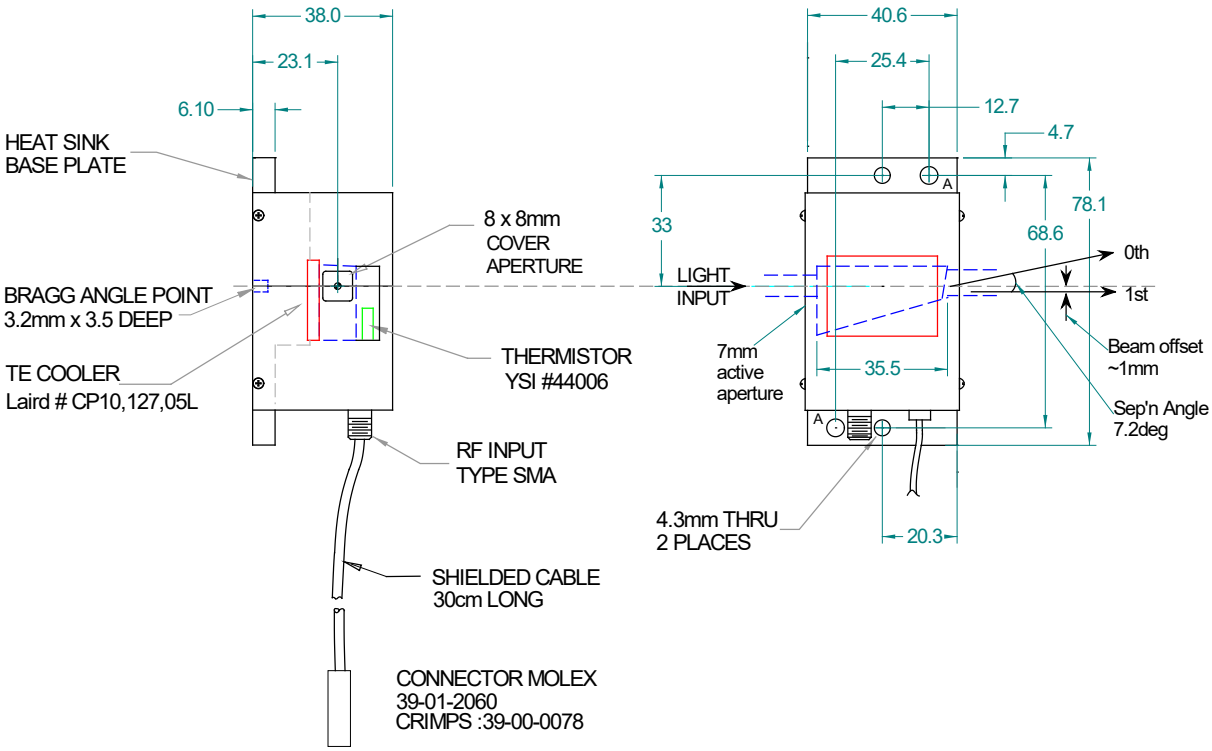
OUTLINE DRAWING

Dimensions: mm



ELECTRONICS

Isomet iMS4-L synthesizer and AF0-40T-4 amplifier.

The TEC controller is not supplied.

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