

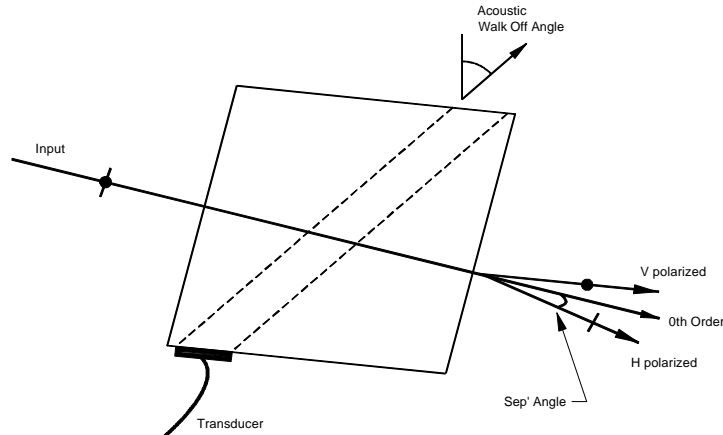
AOTF614

Visible AO Tuneable Filter



1106

**SOLID STATE
FAST ACCESS TIME**

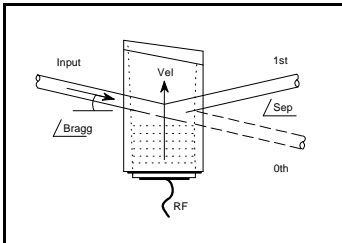


The AOTF range of acousto-optic devices are solid state optical filters. The wavelength of the diffracted light is selected according to the frequency of the RF drive signal. Isomet-grown tellurium dioxide (TeO₂), which has been oriented for off-axis mode operation, is utilised as the interaction material. Fast access times and fine spectral bandwidths make these filters ideal for selecting discrete lines from a multi-line laser sources. The best diffraction efficiency is obtained with linearly polarised input light.

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

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



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Model AOTF614-08 (100cm-1) Specifications

Aperture	5mm x 5mm						
Incidence Angle (deg)	20						
Wavelength (nm)	400	500	600	700	800	1000	1200
Frequency (MHz)	140	95	75	65	50	40	35
Bandwidth (nm)	1.0	2.3	4.0	6.0	8.0	14.0	22.0
Acceptance Angle(deg)	3.5	3.8	4.2	4.5	5.0	5.5	6.0
Separation Angle(deg)	4.4	4.0	3.75	2.8	2.65	2.5	2.5
RF Drive Power (mW)	100	150	200	270	350	570	800

Model AOTF614-16 (50cm-1) Specifications

Aperture	5mm x 5mm						
Incidence Angle (deg)	20						
Wavelength (nm)	400	500	600	700	800	1000	1200
Frequency (MHz)	140	95	75	65	50	40	35
Bandwidth (nm)	0.6	1.2	2.0	3.0	4.0	7.0	11.0
Acceptance Angle(deg)	2.5	2.7	3.0	3.2	3.5	3.9	4.2
Separation Angle(deg)	4.4	4.0	3.75	2.8	2.65	2.5	2.5
RF Drive Power (mW)	50	75	100	130	170	270	400

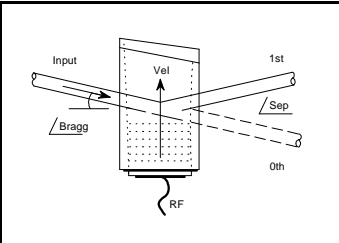
Model AOTF614-24 (35cm-1) Specifications

Aperture	5mm x 5mm						
Incidence Angle (deg)	20						
Wavelength (nm)	400	500	600	700	800	1000	1200
Frequency (MHz)	140	95	75	65	50	40	35
Bandwidth (nm)	0.4	0.8	1.3	2.0	2.7	4.5	7.0
Acceptance Angle(deg)	3.5	3.8	4.2	4.5	5.0	5.5	6.0
Separation Angle(deg)	4.4	4.0	3.75	2.8	2.65	2.5	2.5
RF Drive Power (mW)	40	50	70	90	120	190	270

* The drive frequency for any given device is limited to a maximum of one octave of RF tuning within the overall range shown in the tables. Thus for example the wavelength tuning range for a particular AOTF would be limited to 400-600nm OR 600-1000nm OR 700-1200nm. Please specify at time of order.

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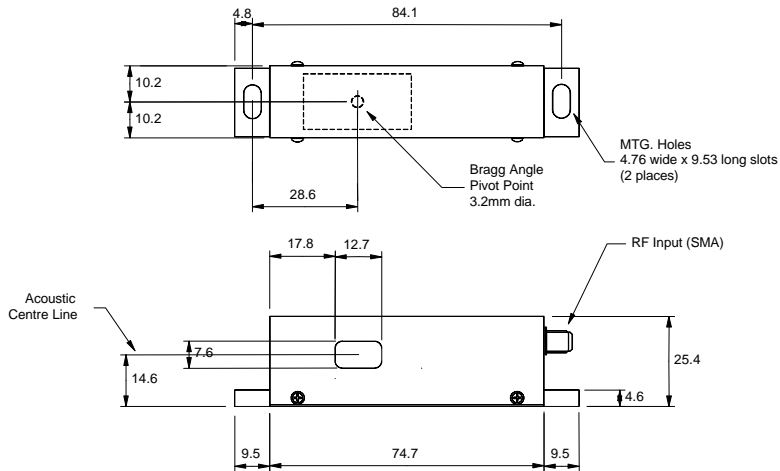
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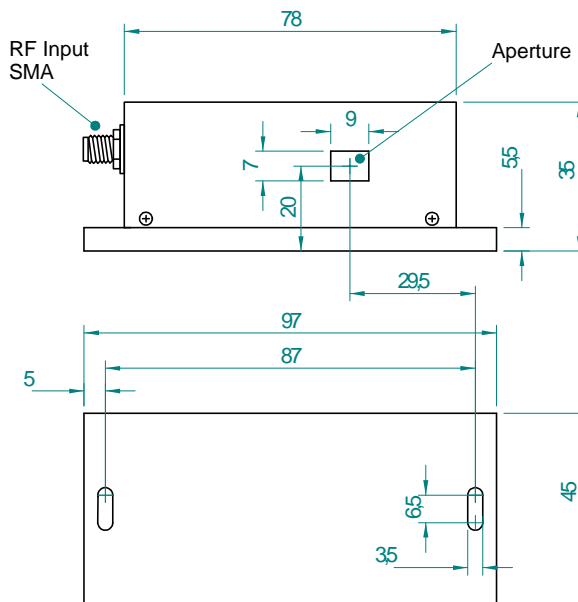
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AOTF614-08 Case Dimensions

Dimensions : mm



AOTF614-16 and -24 Case Dimensions



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