

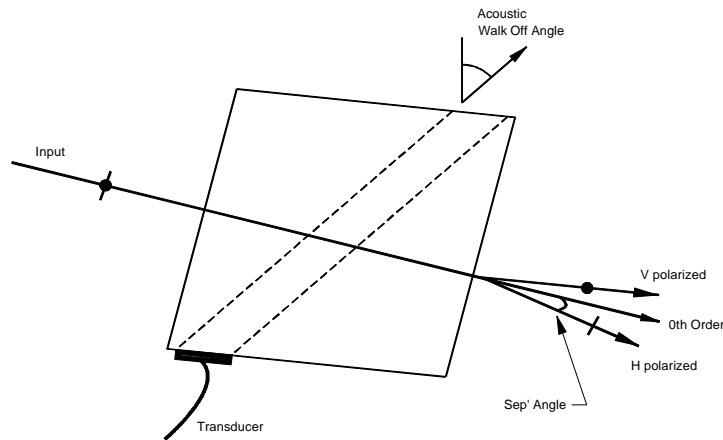
AOTF920

NIR AO Tuneable Filter



1106

SOLID STATE
FAST ACCESS TIME

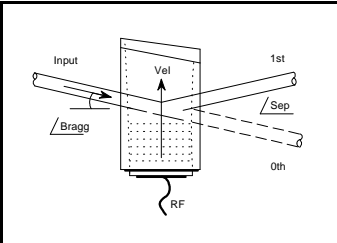


The AOTF range of acousto-optic devices are solid state optical filters. The wavelength of the diffracted light is selected according to the frequency of the RF drive signal. Isomet-grown tellurium dioxide (TeO₂), which has been oriented for off-axis mode operation, is utilised as the interaction material. 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



AOTF920

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Model AOTF920-14 (35cm-1) Specifications

Aperture	5mm x 5mm						
Incidence Angle (deg)	30						
Wavelength (nm) *	700	800	1200	1500	1700	1800	2400
Frequency (MHz)	95	80	52	42	37	35	24
Bandwidth (nm)	2.0	2.5	6.5	11.0	14.0	15.5	27.0
Acceptance Angle(deg) V	3.8	3.9	4.75	5.2	5.5	5.8	6.3
Acceptance Angle(deg) H	3.4	3.6	4.48	4.9	5.2	5.5	6.1
Separation Angle(deg)	5.2	5.1	5.0	5.0	5.0	5.0	5.0
RF Drive Power (mW)	200	300	500	800	1000	1200	2000

Model AOTF920-20 (25cm-1) Specifications

Aperture	5mm x 5mm						
Incidence Angle (deg)	30						
Wavelength (nm) *	700	800	1200	1500	1700	1800	2400
Frequency (MHz)	95	80	52	42	37	35	26
Bandwidth (nm)	1.5	2.0	4.5	7.5	9.5	11.0	18.0
Acceptance Angle(deg) V	2.8	3.0	3.6	4.2	4.4	4.5	5.2
Acceptance Angle(deg) H	2.6	2.8	3.4	3.9	4.1	4.3	4.9
Separation Angle(deg)	5.25	5.1	5.0	5.0	5.0	5.0	5.0
RF Drive Power (mW)	150	200	400	600	750	850	1450

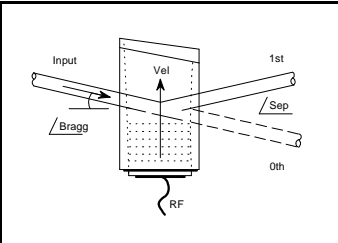
Model AOTF920-24 (20cm-1) Specifications

Aperture	5mm x 5mm						
Incidence Angle (deg)	30						
Wavelength (nm) *	700	800	1200	1500	1700	1800	2400
Frequency (MHz)	95	80	52	42	37	35	26
Bandwidth (nm)	1.0	1.5	4.0	6.2	8.0	9.0	15.5
Acceptance Angle(deg) V	3.0	3.2	3.8	4.3	4.5	4.7	5.5
Acceptance Angle(deg) H	2.8	2.9	3.5	4.0	4.2	4.3	5.0
Separation Angle(deg)	5.25	5.1	5.0	5.0	5.0	5.0	5.0
RF Drive Power (mW)	120	150	320	500	650	700	1200

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 700-1200nm OR 1200-1800nm OR 1500-2400nm. Please specify at time of order.

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AOTF920

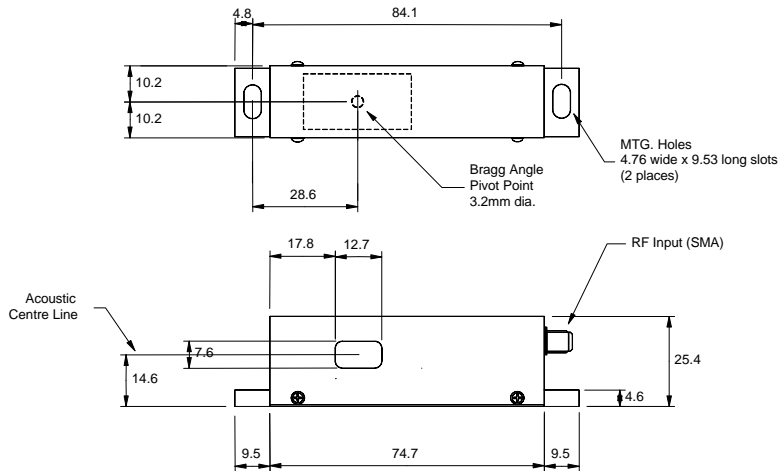
NIR AO Tuneable Filter



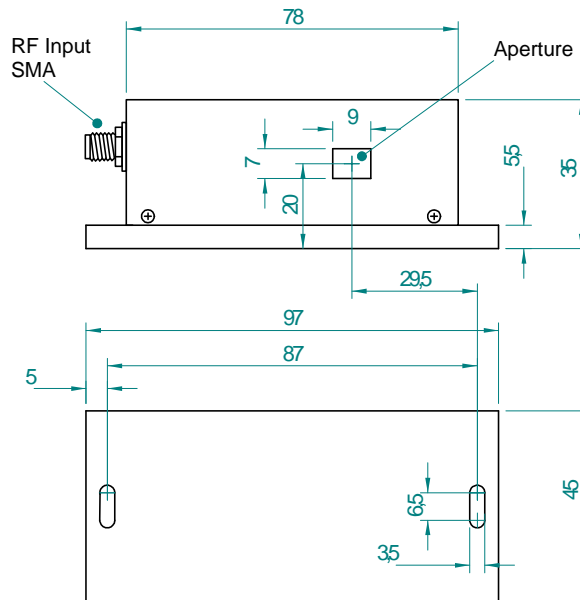
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AOTF920-14 Case Dimensions

Dimensions : mm



AOTF920-20 and -24 Case Dimensions



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