1100 – 2200nm
Acousto-Optic Tunable Filter

TF1650-1100-9-3-GH30A

AO Tunable Filter for spectroscopic applications.

High speed, random access, solid state technology is making AOTF based spectrometers an ideal for on line process control applications.

Gooch & Housego's AOTF capability is extensive. By combining our scientific knowledge, modelling capability and engineering expertise with our renowned manufacturing skill and high quality, our products are aimed at the most discerning customers, in the most demanding applications.

Multichannel RF drivers allowing active pass band resolution and profile control are also available – please enquire.

Patented side lobe suppression technology provides excellent out of band suppression.

In addition to the standard product shown, custom configurations are available for specialised applications. These include alternative mechanical design, wavelength range, aperture & resolution.

Please contact us for further information.

Key Features:
- ☐ Wavelength 1100 to 2200nm
- ☐ High speed, random access
- ☐ Adaptable resolution
- ☐ Solid state technology
- ☐ Patented out of band suppression
- ☐ Custom configurations available

Application examples:
- ☐ Pharmaceutical
- ☐ Environmental
- ☐ Biomedical
- ☐ Food & drink
- ☐ Agriculture
- ☐ Chemical

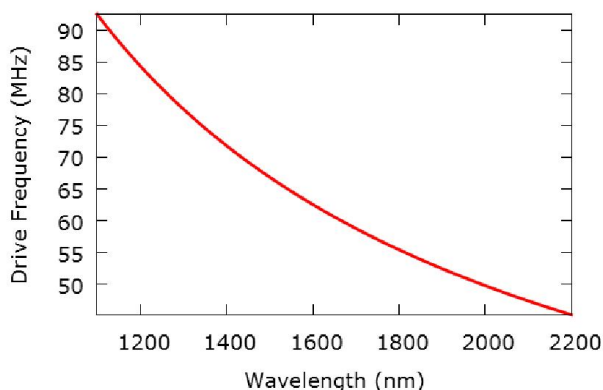## General Specifications

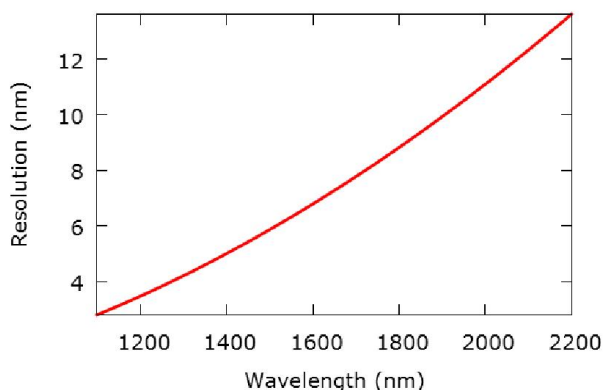|	
Interaction material:	Tellurium Dioxide (Anisotropic)
Wavelength range:	1100 - 2200nm
Frequency range:	45 – 93MHz
Resolution (FWHM):	8nm at 1650nm
Active aperture:	3mm
Incident polarisation:	Linear, vertical with respect to base
Polarisation of diffracted order:	Linear, orthogonal to input (90º rotated)
Pointing stability of diffracted order:	< +/- 0.01°
Beam separation:	> 6º
Diffraction efficiency:	> 90%
RF drive power:	< 2W / channel

Ordering Code

Explanation: TF1650-1100-9-3-GH30A (AO Tunable Filter, centre wavelength 1650nm, 1100nm operating range, 9nm indicative of resolution, 3.0mm active aperture, GH30A housing).

T	F	1	6	5	0	-	1	1	0	0	-	9	-	3	-	G	H	3	0	A

Tuning Relation

Line Width

Mechanical Data