400 – 650nm
Acousto-Optic Tunable Filter

TF525-250-6-3-GH19A

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 400 to 650nm
- □ 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
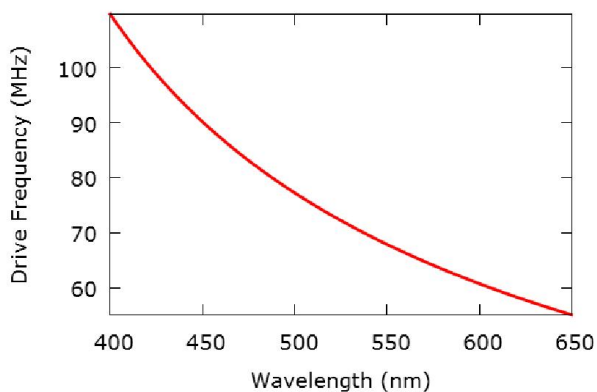- □ Chemical

General Specifications

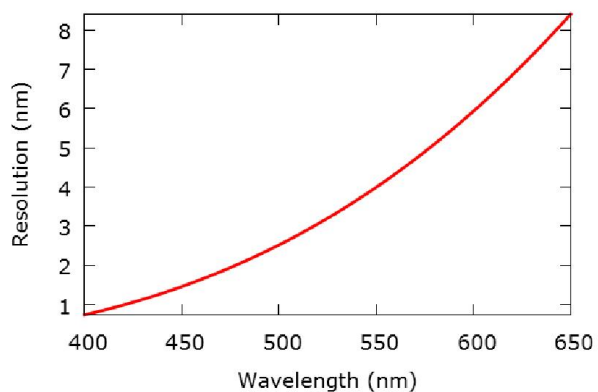|	
Interaction material:	Tellurium Dioxide (Anisotropic)
Wavelength range:	400 - 650nm
Frequency range:	55 – 110MHz
Resolution (FWHM):	3nm at 525nm
Active aperture:	3mm
Incident polarisation:	Linear, vertical with respect to base
Polarisation of diffracted order:	Linear, orthogonal to input (90º rotated)
Pointing stability of diffracted order:	< +/- 0.01°
Beam separation:	> 3º
Diffraction efficiency:	> 90%
RF drive power:	< 200mW / channel

Ordering Code

Explanation: TF525-250-6-3-GH19A (AO Tunable Filter, centre wavelength 525nm, 250nm operating range, 6nm indicative of resolution, 3.0mm active aperture, GH19A housing).

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Tuning Relation

Line Width

Contact: sales@goochandhousego.com   www.goochandhousego.com

As part of our policy of continuous product improvement we reserve the right to change specifications at any time
IWDS044 V1.0

Mechanical Data

Ø3 ⍌ 2.100
PIVOT HOLE

2 x MOUTNING HOLE
M3x0.5 - 6H THRU ALL

RF Input
SMA Female

Optical Apature

Zero order beam
First order beam

Input beam

1.80°