

1250 – 2500nm Acousto-Optic Tunable Filter

TF1875-1250-10-6-GH59A

AO Tunable Filter for NIR 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.

Use in conjunction with our frequency synthesised driver (DDS) enables active wavelength / temperature stabilisation.

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:

- 1250 – 2500nm
- 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



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Contact us 

Contact: sales@goochandhousego.com

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As part of our policy of continuous product improvement we reserve the right to change specifications at any time
IWDS019 V1.4

General Specifications

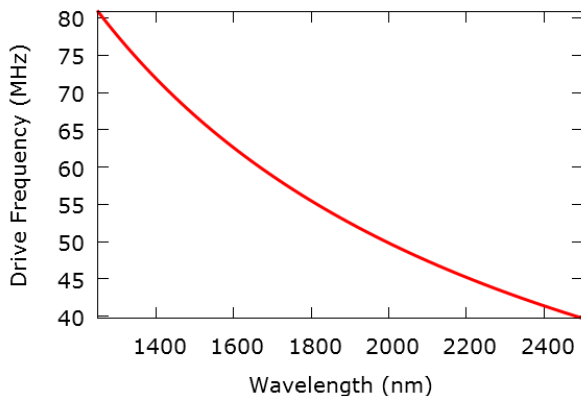
Interaction material:	Tellurium Dioxide (Anisotropic)
Wavelength range:	1250 - 2500nm
Frequency range:	39 – 81MHz
Resolution (FWHM):	~ 10nm at 1875nm
Active aperture:	6mm
Polarisation:	Polarisation sensitive
Incident polarisation:	Linear, vertical with respect to base
Polarisation of diffracted order:	Linear, orthogonal to input (90° rotated)
Pointing stability of diffracted order:	< ± 0.01 ° typical
Field Of View:	± 3°
Beam separation:	> 6°
RF input impedance:	50Ω
Transmission:	> 95%
Diffraction efficiency:	> 90%
RF drive power:	< 5W max (Typical 2W at 1550nm)
Cooling:	Conduction through base

Ordering Code

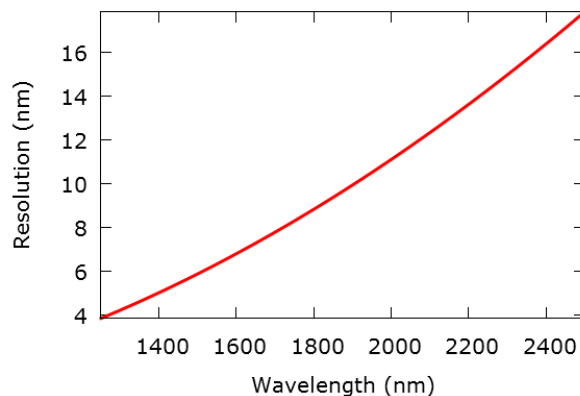
Explanation: TF1875-1250-10-6-GH59A (AO Tunable Filter – centre wavelength 1875nm – 1250nm operating range - 10nm resolution - 6.0mm active aperture – GH59 housing, with side lobe suppression).

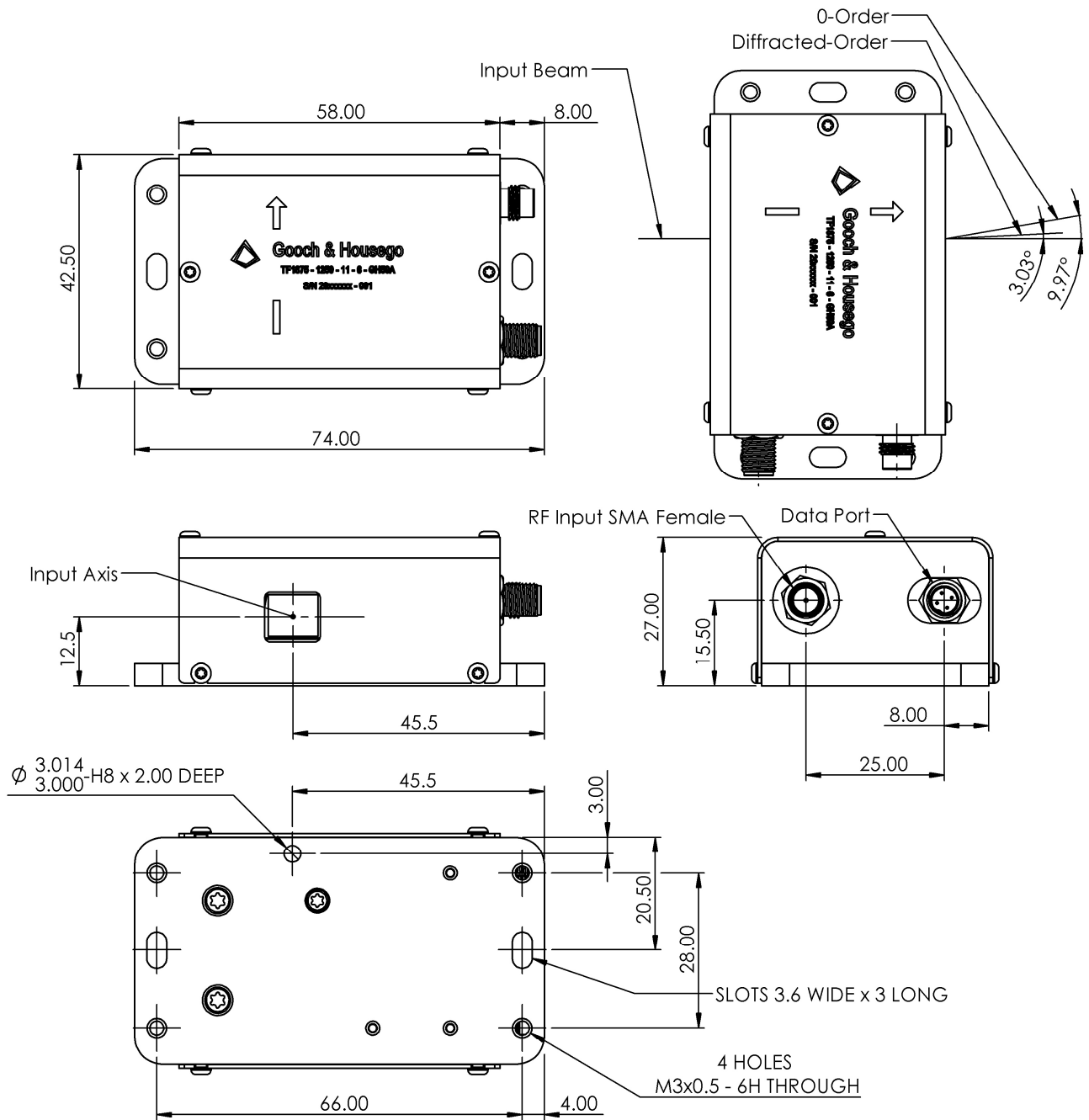
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Tuning Relation



Line Width





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