



650 – 1200nm Acousto-Optic Tunable Filter

TF925-550-10-3-GH29A

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 650 to 1200nm
- 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

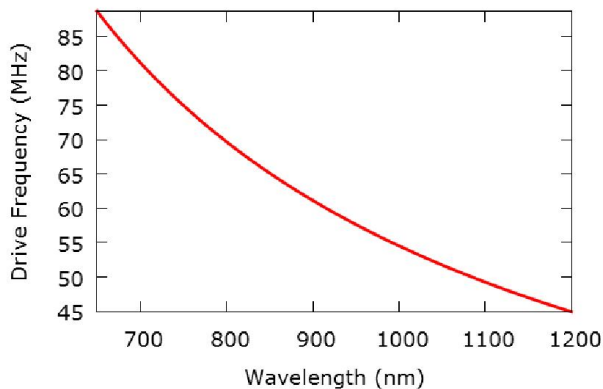
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|---|---|
| Interaction material: | Tellurium Dioxide (Anisotropic) |
| Wavelength range: | 650 - 1200nm |
| Frequency range: | 44 – 89MHz |
| Resolution (FWHM): | 13nm at 925nm |
| Active aperture: | 3mm |
| Incident polarisation: | Linear, vertical with respect to base |
| Polarisation of diffracted order: | Linear, orthogonal to input (90° rotated) |
| Pointing stability of diffracted order: | < +/- 0.01° |
| Beam separation: | > 4° |
| Diffraction efficiency: | > 90% |
| RF drive power: | < 750mW / channel |

Ordering Code

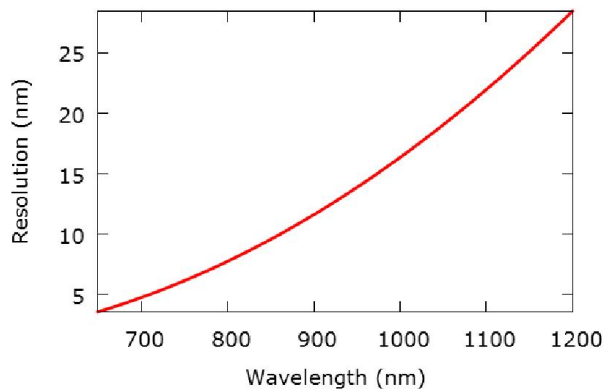
Explanation: TF925-550-10-3-GH19A (AO Tunable Filter, centre wavelength 925nm, 550nm operating range, 10nm indicative of resolution, 3.0mm active aperture, GH29A housing).

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| T | F | 9 | 2 | 5 | - | 5 | 5 | 0 | - | 1 | 0 | - | 3 | - | G | H | 2 | 9 | A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Tuning Relation



Line Width



Mechanical Data

