An acousto-optic tunable filter (PC AOM) for use at 400 – 650nm. Ideal for laser line selection, particularly in confocal microscopy applications.

Designed to optimise diffracted beam efficiency, quality & pointing stability while maintaining high extinction ratio and low RF drive power, also incorporating patented side-lobe suppression and active temperature stabilisation.

Should ideally be used in conjunction with the 64040-150-0.2ADMDFS-8X1 frequency synthesised driver, allowing independent analogue and digital (blanking) control of up to eight wavelengths.

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.

**Key Features:**
- 400 – 650nm
- High Efficiency
- Excellent pointing stability
- Patented side-lobe suppression
- High extinction ratio
- Maintains beam quality
- Low drive power
- Temperature stabilised

**Applications:**
- Biomedical:
  - Confocal Microscopy

**General Specifications**

<table>
<thead>
<tr>
<th>Interaction material:</th>
<th>Tellurium Dioxide (Anisotropic)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength range:</td>
<td>400 - 650nm</td>
</tr>
<tr>
<td>Resolution (FWHM):</td>
<td>&lt; 6nm at 525nm</td>
</tr>
<tr>
<td>Active aperture:</td>
<td>3mm</td>
</tr>
<tr>
<td>Incident polarisation:</td>
<td>Linear, vertical with respect to base</td>
</tr>
<tr>
<td>Polarisation of diffracted order:</td>
<td>Linear, orthogonal to input (90º rotated)</td>
</tr>
<tr>
<td>Pointing stability of diffracted order:</td>
<td>&lt; +/- 150µrad typical</td>
</tr>
<tr>
<td>Beam separation:</td>
<td>&gt; 3º</td>
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<tr>
<td>Side lobe suppression:</td>
<td>&gt; 25dB typical</td>
</tr>
<tr>
<td>Diffraction efficiency:</td>
<td>&gt; 90% (&gt; 95% typical)</td>
</tr>
<tr>
<td>RF drive power:</td>
<td>&lt; 100mW / channel</td>
</tr>
</tbody>
</table>

**Recommended RF Driver:**

MSD040-150-0.8ADM-A5H-8X1

As part of our policy of continuous product improvement we reserve the right to change specifications at any time.
Ordering Code

Explanation: TF525-250-6-3-GH18A (AOTF, wavelength range 400 – 650nm, 6nm resolution, 3.0mm active aperture, GH18 housing, patented side-lobe suppression).

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

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Tuning relation

Drive Frequency - MHz

Wavelength - nm

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