



A compact Acousto-Optic Frequency Shifter featuring a generous active aperture, low power 350mW 80MHz supply requirement and high diffraction efficiency, this device is ideal for use in heterodyne interferometric systems, particularly laser Doppler velocimetry and has been designed to facilitate double pass configuration.

In addition to the specifications indicated, we also offer alternative wavelengths, RF frequencies, active apertures & a wide range of custom housing configurations. We also offer full custom design & manufacturing, enabling our customers to achieve the perfect solution.

Our scientists and engineers are available to assist in selecting the most appropriate Acousto-Optic device and RF driver for your application.

Please contact our sales team for further information.

80MHz, 633nm AO Frequency Shifter

I-FS080-3S2E-3-LG5

Key Features:

80MHz 632.8nm High efficiency Tellurium Dioxide

Applications:

- Industrial:
- Laser Doppler Vibrometry
- Laser Doppler Velocimetry
- 3D laser scanning



General Specifications

Model No: Device: Interaction material: Wavelength: AR coating reflectivity: Transmission: Frequency: Input polarisation: Diffracted Beam Polarisation: Zero to 1st order polarisation extinction ratio: Active aperture: Acoustic mode: **Output Beam Compensation** Diffracted beam angle wrt input: Zero order beam angle wrt input: **Diffraction Efficiency: RF** Drive Power

I-FS080-3S2E-3-LG5 AO Frequency Shifter **Tellurium Dioxide** 632.8nm < 0.3% per surface >95.0% 80MHz Linear, parallel to base Rotated by 90° wrt input >100:1 3.0mm Slow Shear

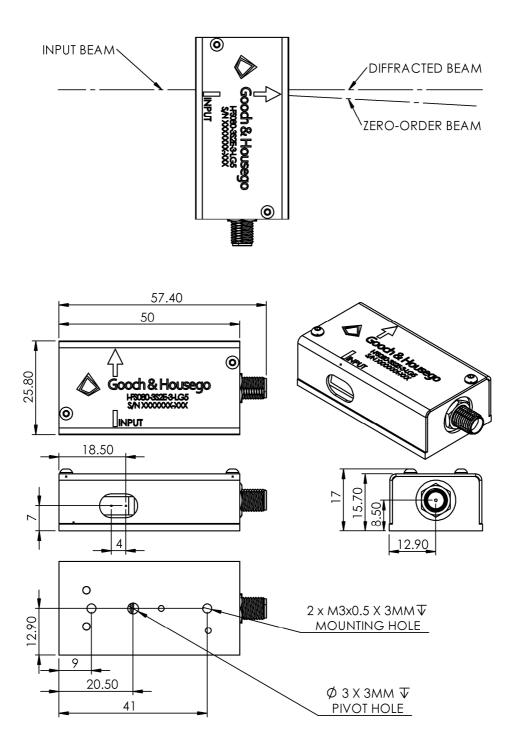
0° 3.2° >90% <350mW

Ordering Code

Explanation: I-FS080-3S2E-3-LG5 (Frequency Shifter, 80MHz, 3.0mm active aperture, shear mode, Tellurium Dioxide, 632.8nm, SMA male, LG5 housing).

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