



A compact Acousto-Optic Frequency Shifter with integral RF driver & reference frequency output.

Featuring a generous active aperture, low power 15V DC 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.

40MHz, 630 – 690nm AO Frequency Shifter with integrated RF driver

I-FS040-2S2E-1-GH66

Key Features:

40MHz 630 – 690nm Compact integrated design High efficiency 40MHz reference frequency output 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: Frequency drift / °C: Active aperture: Polarisation state of input beam: Polarisation state of 1st order beam: Polarisation state of zero order beam: Supply voltage: Power consumption: Power supply connection: RF reference output: RF reference output connector: Harmonic distortion: Zero to 1st order polarisation extinction ratio: Separation angle between zero and 1st order beams: Diffraction Efficiency: Cooling:

I-FS040-2S2E-1-GH66 **AO Frequency Shifter Tellurium Dioxide** 630 - 690nm < 0.2% per surface > 95% 40MHz < ±10ppm 2.0mm Linear, horizontal to base Linear, vertical to base Linear, horizontal to base 15V dc (±10%) <1.5W lead-through filter 40MHz sine-wave voltage of 0.5 - 1.0V p-p SMB male < 40dB @40MHz > 100:1 2.4° at 655nm > 90% Conduction through base

Ordering Code

Explanation: I-FS040-2S2E-1-GH66 (Frequency Shifter, 40MHz, 2.0mm active aperture, shear mode, Tellurium Dioxide, 630 - 690nm, SMB male for reference output, GH66 housing).







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