



80MHz, 633nm AO Frequency Shifter

I-FS080-3S2E-3-LG5

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.

Key Features:

- 80MHz
- 632.8nm
- High efficiency
- Tellurium Dioxide

Applications:

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



General Specifications

Model No:	I-FS080-3S2E-3-LG5
Device:	AO Frequency Shifter
Interaction material:	Tellurium Dioxide
Wavelength:	632.8nm
AR coating reflectivity:	< 0.3% per surface
Transmission:	>95.0%
Frequency:	80MHz
Input polarisation:	Linear, parallel to base
Diffracted Beam Polarisation:	Rotated by 90° wrt input
Zero to 1 st order polarisation extinction ratio:	>100:1
Active aperture:	3.0mm
Acoustic mode:	Slow Shear
Output Beam Compensation	
Diffracted beam angle wrt input:	0°
Zero order beam angle wrt input:	3.2°
Diffraction Efficiency:	>90%
RF Drive Power	<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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