## Gooch & Housego



The LV1 is ideally suited for frequency shifting or slow modulation of linearly polarised Nd:YAG or Nd:YVO<sub>4</sub> lasers.

Rise-times down to 10µs are achievable, together with excellent diffraction efficiency at extremely low RF drive power, typically >95% at 0.5W RF.

The slow shear interaction also results in a very user friendly diffraction angle of 6.45deg.

In addition to the specifications indicated, we also offer alternative wavelengths, frequency shift, active aperture & integrated driver versions.

## AO Frequency Shifter / Modulator

I-FS080-2S2G-3-LV1

Former model number: M080-2G-LV1

Key Features:

High efficiency Low drive power 1064nm 80MHz

Custom configurations available

Applications:

- Industrial:
  - Vibrometry
  - Process control

Interferometry

Pulse picking or power control

Scientific:

## **General Specifications**

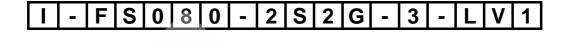
Interaction material: Acoustic mode: Wavelength: AR coating reflectivity: Transmission: Frequency shift: VSWR: Active aperture: Clear aperture: Recommended beam diameter: Input polarisation: Polarisation alignment: Output polarisation (1<sup>st</sup> order diffracted): Angle between zero and 1<sup>st</sup> order beams: Diffraction efficiency: RF power:

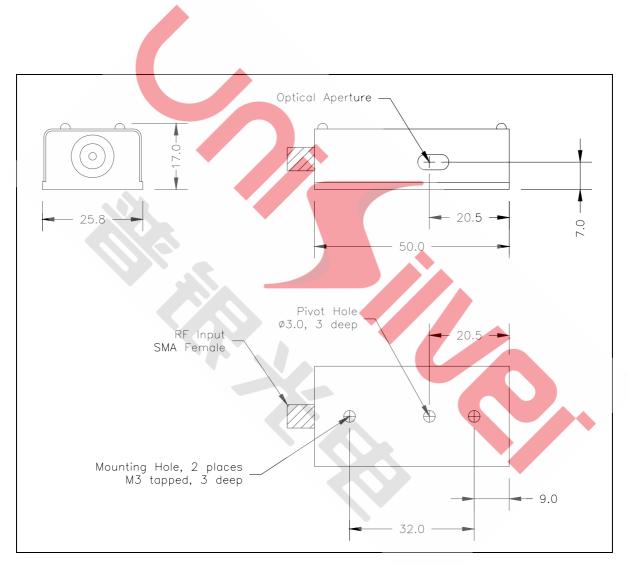
Tellurium Dioxide (TeO<sub>2</sub>) Anisotropic, slow shear 1064nm < 0.2% per surface > 99.5% 80MHz < 1.2:1 2mm 4mm 1mm Linear, vertical with respect to housing base ± 5° Linear, horizontal (rotated by 90° to input) 6.45° > 90% (typically > 95%) 0.5W



## **Ordering Code**

**Explanation: I-FS080-2S2G-3-LV1** (Frequency shifter, 80MHz, 2.0mm active aperture, shear mode, tellurium dioxide, 1064nm, SMA female bulk head RF connector, LV1 housing.





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