



Gooch & Housego



AO Frequency Shifter / Modulator

I-FS110-2C2B8-3-GH2

Former model number: M110-2B/F-GH2

A general purpose, polarisation insensitive, 40MHz frequency shifter or modulator, suitable for use over the range 633 – 680nm.

In addition to the specifications indicated, we also offer alternative wavelengths, frequency shift, active aperture and custom housing configurations.

Our team of engineers and scientists are ready to discuss your requirements and help you find the optimum solution for your individual application.

Key Features:

- ☐ 480 – 800nm
- ☐ Polarisation insensitive
- ☐ 2mm active aperture
- ☐ 110MHz
- ☐ Custom configurations available

General Specifications

Interaction material:	Tellurium Dioxide (TeO_2)
Acoustic mode:	Compressional
Wavelength:	480 - 800nm
AR coating reflectivity:	$\leq 0.5\%$ per surface
Transmission:	$> 95\%$
Frequency shift:	110MHz
VSWR:	$< 1.2:1$
Active aperture:	2mm
Input polarisation:	Any
Diffraction efficiency:	$> 85\%$
Rise-time:	155ns/mm
RF power:	$< 2\text{W}$ (wavelength dependent)
VSWR:	$< 1.2:1$

Ordering Code

Explanation: I-FS110-2C2B8-3-GH2 (Frequency shifter, 110MHz, 2.0mm active aperture, compressional mode, tellurium dioxide, 480 - 800nm, SMA female bulk head RF connector, GH2 housing).

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