

# FIBER-Q®, VISIBLE WAVELENGTH

## 450 nm Fiber Coupled Acousto-Optic Modulator

S-M200-0.4C2A-3-F2S/S-M200-0.4C2A-3-F2P<sup>1</sup>

Gooch & Housego specialize in providing optical components for high power fiber laser and amplifier systems.

In-house control of critical manufacturing processes, from crystalline material selection and orientation, cutting, polishing and anti-reflection coating through to fiber coupling, ensure our components are of the highest optical quality.

In addition to the standard product shown, custom configurations are available for specialized applications.



### Key Features

- Low insertion loss
- Compact low profile package
- Sealed to IP54 (dust/splash proof, non-hermetic)
- Stable performance
- Custom configurations available

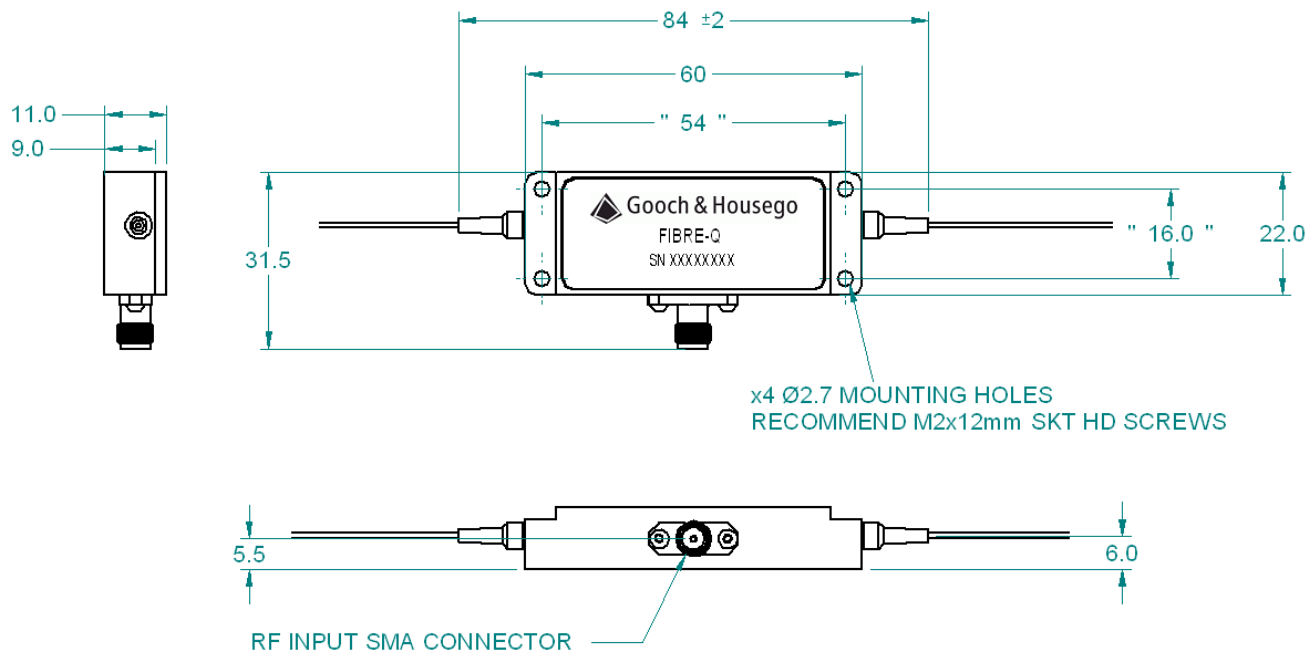
### Applications

- Biomedical
- Optical sensing
- Pulse picker

450 NM FIBER-COUPLED ACOUSTO-OPTIC MODULATOR

## General Specifications

Parameter	Min	Max	Typical	Comments
Interaction material	-	-	-	Tellurium dioxide
Wavelength	-	-	450 nm	
Average optical power handling	-	0.1 W	-	
Insertion loss	-	2.5 dB	-	
Polarization dependent loss	-	0.5 dB	0.2 dB	
Polarization extinction ratio <sup>1</sup>	15 dB	-	-	
Extinction ratio	50 dB	-	-	
Return loss (RF ON/RF OFF)	40 dB	-	-	
Rise-time fall-time (10% - 90%)	-	25 ns	-	
Frequency	-	-	200 MHz	
VSWR	-	1.3:1	-	
Input impedance	-	-	50 $\Omega$	
RF power	-	1 W	-	Absolute maximum rating. Higher power will cause damage.
Frequency shift	-	-	200 MHz	Upshift
Fiber type	-	-	-	Nufern S405-XP/PM-S405-XP <sup>1</sup>
Fiber length	1.5 m	-	-	900 $\mu$ m PVDF sleeving
Fiber termination	-	-	-	Bare fiber



### Other products which may be of interest

- HI REL couplers
- High power multimode combiners
- Combiners with all types of signal feedthrough fiber
- Ultra-low ratio tap couplers
- WDMs for combining signals with red pointer lasers
- OCT wideband couplers

For further information

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As part of our policy of continuous product improvement, we reserve the right to change specifications at any time.

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