

Fiber-Q[®] (Non-Hermetic)

1060 nm Fiber Coupled Acousto-Optic Modulator

S-M200-0.1C2G-3-F2P

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 (AR) coating through to fiber coupling, ensure our components are of the highest optical quality.

The Fiber-Q[®] acousto-optic modulator is designed for use in pulsed fiber laser amplifier systems and as a pulse picker for short pulse, high repetition rate fiber lasers.

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



Key Features

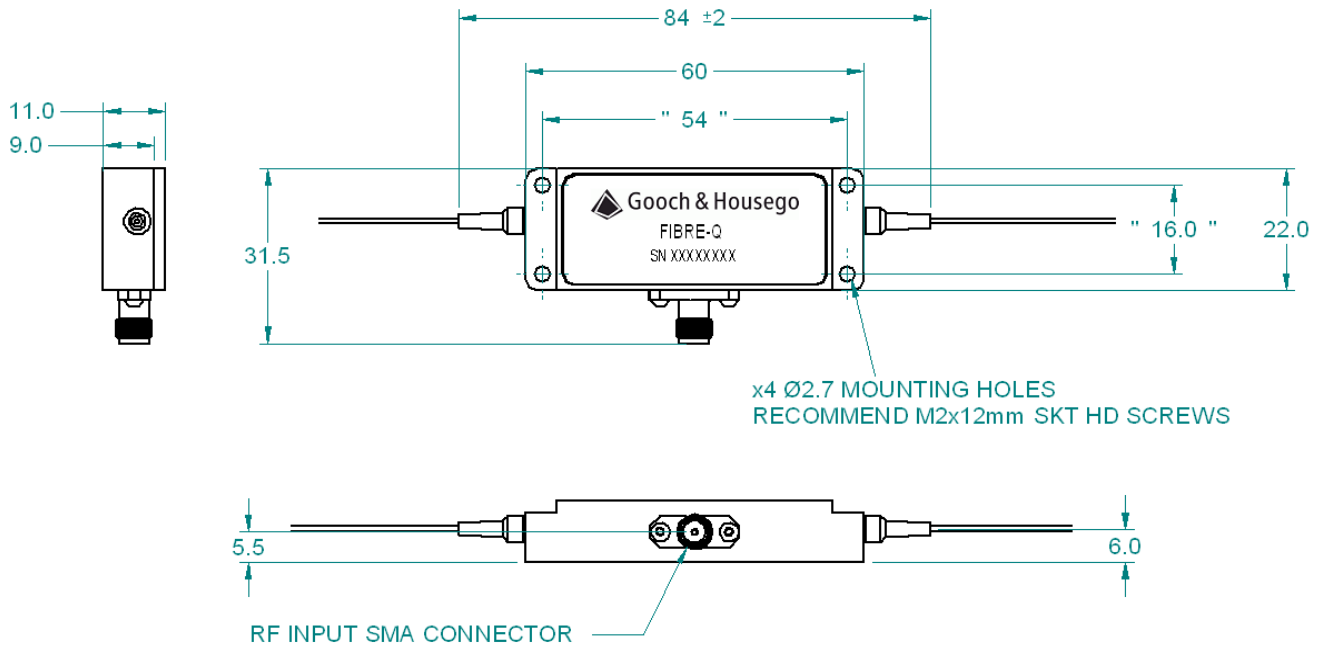
- Low insertion loss
- Compact low profile package
- Sealed to IP54 (dust/splash proof)
- Stable performance
- Custom configurations available

Applications

- Fiber laser
- Pulse picker
- Optical sensing

General Specifications

Parameter	Min	Max	Typical	Comments
Interaction material	-	-	-	Tellurium dioxide
Wavelength	1030 nm	1090 nm	1060 nm	
Average optical power handling	-	1 W	-	
Peak optical power handling	-	1 kW	-	Dependent on pulse width
Insertion loss	-	4 dB	3.5 dB	
Polarization extinction ratio	18 dB	-	-	
Extinction ratio	45 dB	-	-	
Return loss (RF ON /RF OFF)	40 dB	-	-	
Rise-time/fall-time: (10% - 90%)	-	10 ns	-	Does not include RF driver rise/fall time
Frequency	-	-	200 MHz	
VSWR	-	1.5:1	-	
Input impedance	-	-	50 Ω	
RF power	-	2.5 W	-	Absolute maximum rating. Higher power will cause damage.
Frequency shift	-	-	200 MHz	Upshift
Fiber type	-	-	-	Fujikura PM980 (SM98-PS-U25A) or equivalent
Fiber length	1.5 m	-	-	900 μ 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