

## FIBER-Q®

### 1060 nm Fiber Coupled Acousto-Optic Modulator

T-M300-0.1C2G-3-F2S & T-M300-0.1C2G-3-F2P<sup>1</sup>

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 rep rate fiber lasers.

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
- Rugged hermetic design
- Stable performance
- Custom configurations available
- Fast switching speed

#### Applications

- Fiber laser
- Pulse picker
- Optical sensing



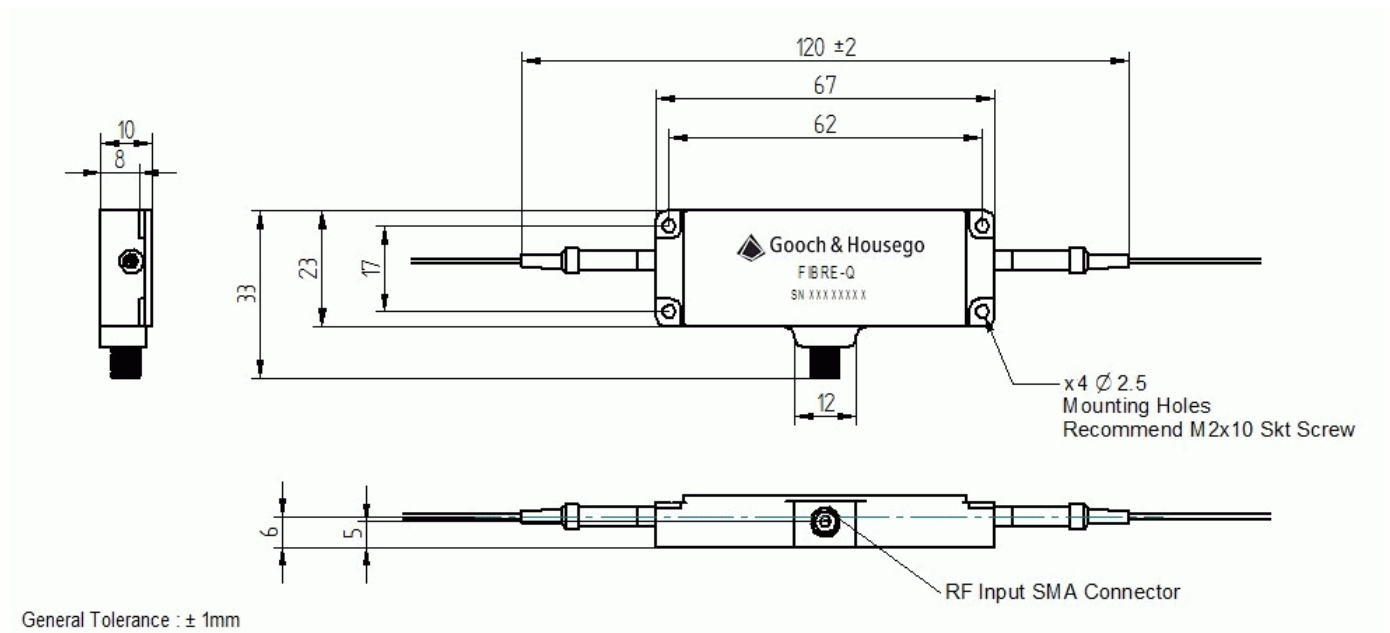
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1060 NM FIBER COUPLED ACOUSTO-OPTIC MODULATOR

## General Specifications

Parameter	Min	Max	Typical	Comments
Interaction material	-	-	-	Tellurium dioxide
Wavelength	1030 nm	1090 nm	1060 nm	
Average optical power handling	-	0.5 W	-	
Peak optical power handling	-	0.25 kW	-	Dependent on pulse width
Insertion loss	-	3 dB	-	
Polarization dependant loss	-	0.5 dB	-	
Polarization extinction ratio <sup>1</sup>	15 dB		20	
Extinction ratio	50 dB	-	-	
Return loss (RF ON/RF OFF)	40 dB	-	-	
Rise-time/fall-time: (10% - 90%)	-	6 ns	-	
Frequency	-	-	300 MHz	
VSWR	-	1.5:1	-	
Input impedance	-	-	50 $\Omega$	
Peak RF power	-	5 W	-	Max duty cycle 20% Max pulse-length 1 $\mu$ s
Fiber type	-	-	-	HI1060 Fujikura PM980 <sup>1</sup> or equivalent
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



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