

# FIBER-Q®

## 1550 nm Fiber Coupled Acousto-Optic Modulator

T-M300-0.1C16J-3-F2P

Gooch & Housego specialize in providing optical components for fiber laser systems.

G&H 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

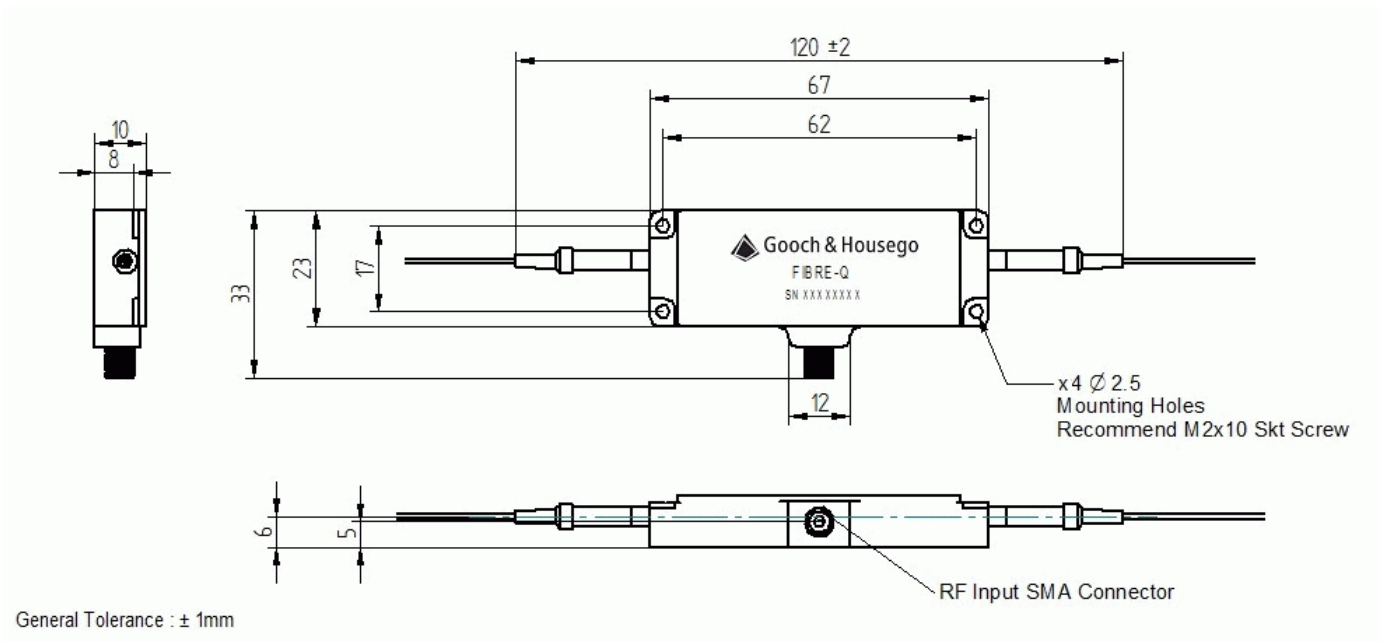
### Applications

- Optical sensing
- Pulse picker
- Fiber laser

1550NM FIBER COUPLED ACOUSTO-OPTIC MODULATOR

## General Specifications

Parameter	Min	Max	Typical	Comments
Interaction material	-	-	-	Silicon
Wavelength	1530 nm	1565 nm	1550 nm	
Average optical power handling	-	1 W	-	
Peak optical power handling	-	1 kW	-	Dependent on pulse width
Insertion loss	-	3 dB	-	
Polarization extinction ratio	15 dB	-	-	
Extinction ratio	50 dB	-	-	
Return loss (RF ON/RF OFF)	40 dB	-	-	
Rise-time/fall-time: (10% - 90%)	-	7 ns	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	-	-	-	Fujikura PM1550 (SM15-PS-U25A) 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

#### Ordering Information:



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Email orders to: [sales@xsoptix.com](mailto:sales@xsoptix.com)  
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