

# FIBER-Q®

## 1550 nm Fiber Coupled Acousto-Optic Modulator

T-M110-0.2C2J-3-F2S

The T-M110-0.2C2J-3-F2S acousto-optic modulator is designed for use as a 110MHz frequency shifter for heterodyne interferometry, an intensity modulator or a pulse picker.

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

### Applications

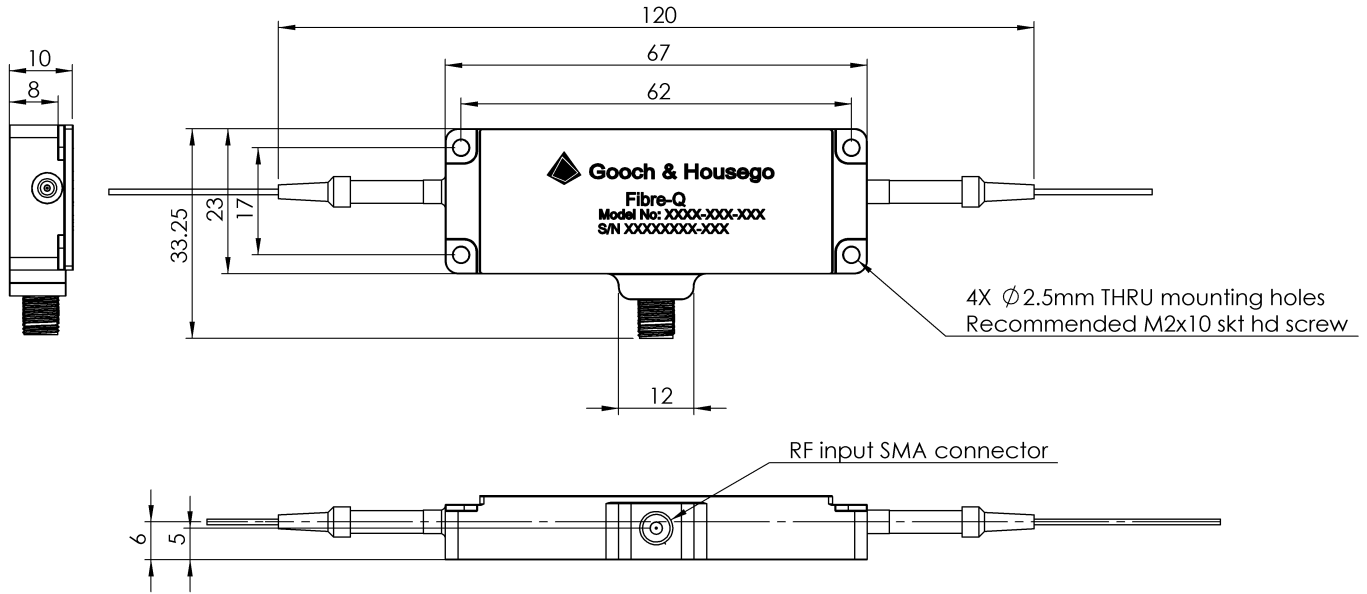
- Sensing (heterodyne interferometry)
- Intensity modulation
- Pulse picking

1550 NM FIBER COUPLED ACOUSTO-OPTIC MODULATOR



## General Specifications

Parameter	Min	Max	Typical	Comments
Interaction material	-	-	-	Tellurium Dioxide
Wavelength	1530 nm	1565 nm	1550 nm	Other wavelengths available on request
Average optical power handling	-	1 W	-	
Peak optical power handling	-	1 kW	-	Dependent on pulse width
Insertion loss	-	3 dB	2 dB	
Polarisation dependant loss	-	0.3 dB	0.2 dB	
Extinction ratio	50 dB	-	-	
Return loss (RF ON/RF OFF)	40 dB	-	-	
Rise-time/fall-time: (10% - 90%)	-	25 ns	-	
Frequency	-	-	110 MHz	
VSWR	-	1.2:1	-	
Input impedance	-	-	50 $\Omega$	
RF power	-	3 W	-	Absolute maximum rating. Higher power will cause damage.
Frequency shift	-	-	110 MHz	Upshift
Fiber type	-	-	-	SMF28
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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 Ph: 203-401-8093

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