

**FIBER-Q® , VISIBLE WAVELENGTH  
450 nm Fiber Coupled Acousto-Optic Modulator  
STG-S-M200-0.4C2A-3-F2S/STG-S-M200-0.4C2A-3-F2P**



We 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.

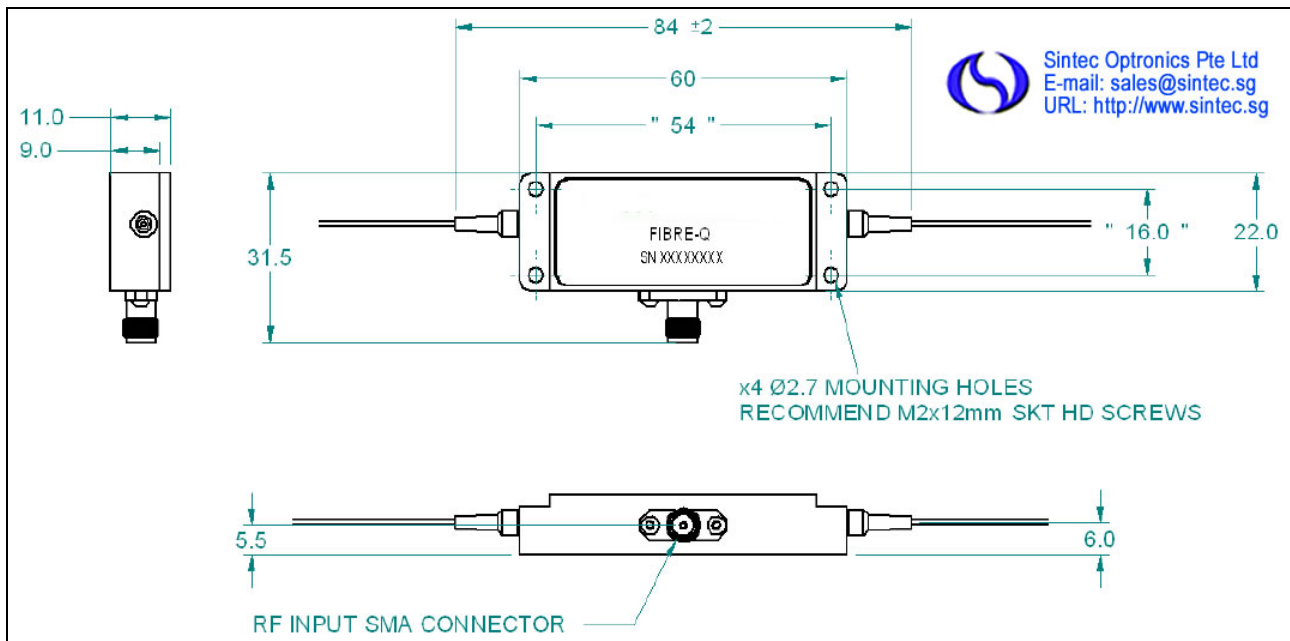
**Key Features**

- 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

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 Ω	
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 μm 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