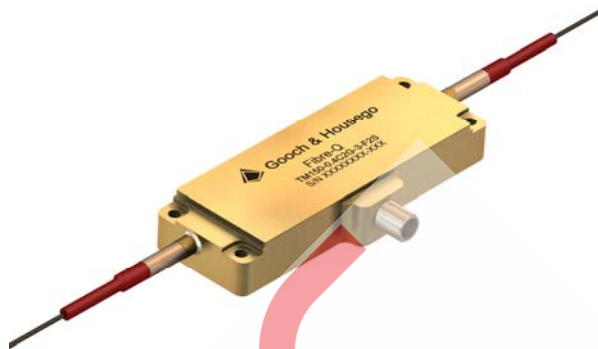




# Gooch & Housego



## Fibre-Q

### 1550nm Fibre-Coupled Acousto-Optic Modulator

T-M080-0.4C2J-3-F2S

Gooch & Housego specialise in providing optical components for high power fibre laser and amplifier systems. In-house control of critical manufacturing processes, from crystalline material selection and orientation, cutting, polishing and AR coating through to fibre coupling, ensure our components are of the highest optical quality.

The T-M080-0.4C2J-3-F2S Acousto-Optic Modulator is designed for use as an 80MHz frequency shifter for heterodyne interferometry, an intensity modulator or a pulse picker.

In addition to the standard product shown, custom configurations are available for specialised 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

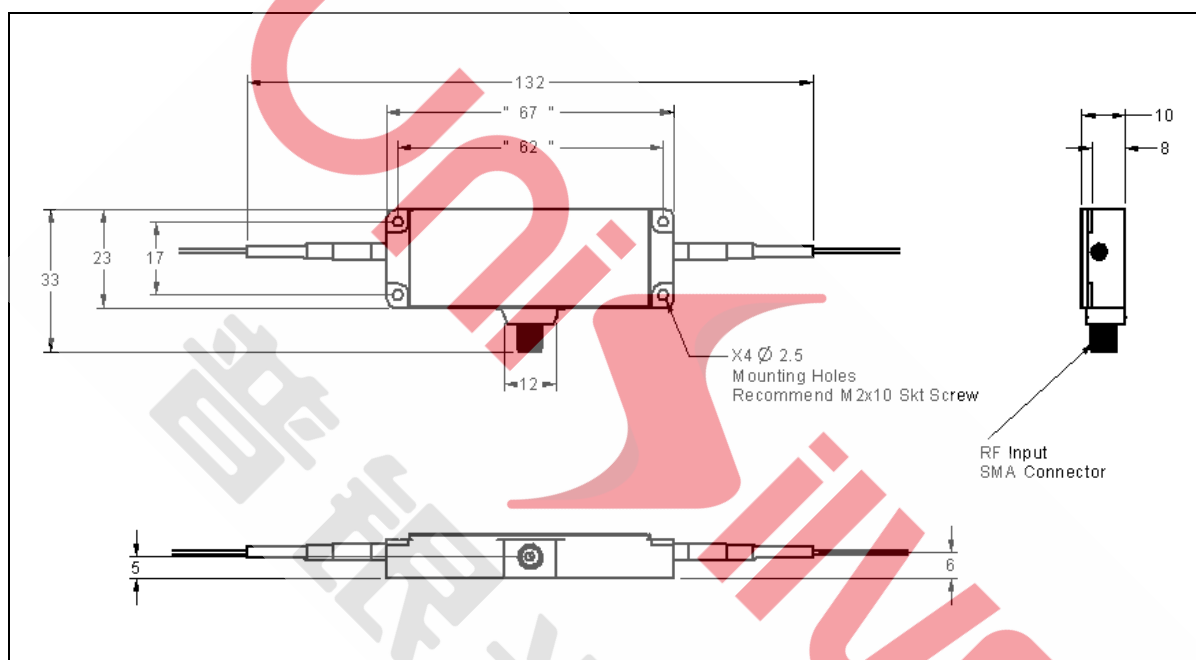
## General Specifications

Interaction material:	Tellurium Dioxide
Wavelength:	1550nm (other wavelengths available on request)
Average optical power handling:	5W
Peak (pulse) optical power handling:	30kW typical (dependent on pulse width)
Insertion loss:	< 3dB
Return loss:	> 40dB (> 50dB version available on request)
Extinction ratio (1 <sup>st</sup> order on / off)	> 50dB
Rise-time / fall-time:	35ns
Frequency:	80MHz
VSWR:	< 1.2:1
Input impedance:	50Ω
RF power:	< 3.0W
Frequency shift:	80MHz (up-shift)
Fibre type:	SMF28 (900µm sleeving, 1.5m length)
Fibre termination:	Bare fibre
Recommended RF driver:	A35080

### Ordering Code:

**Explanation:** T-M080-0.4C2J-3-F2S (Modulator, 80MHz, 0.4mm active aperture, compressional mode, Tellurium Dioxide, 1550nm, SMA female bulk head connector, 2 fibre, single mode (SMF28))

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### Other Gooch & Housego products which may be of interest:

Our extensive range of components for fibre laser applications includes:

- Isolators
- High power multimode combiners
- Combiners with all types of signal feedthrough fibre
- Ultra low ratio tap couplers
- WDMs for combining signals with red pointer lasers

Please send your specifications to [sales@goochandhousego.com](mailto:sales@goochandhousego.com) or contact your local sales representative to discuss your requirements.