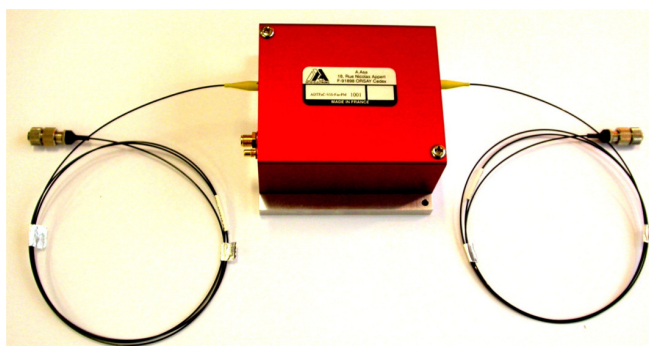


# AOTFnC-400.650-TN-FIO

## Polychromatic Visible AOM

### Input/Output Fiber pigtailed polychromatic AOM 400-650 nm

- No Adjustment –Plug&play
- Polarization Maintaining Fibers
- Single Mode 400-650 nm



The AOTFnC is a special acousto-optic tunable filter which uses the anisotropic interaction inside a tellurium dioxide crystal to control independently or simultaneously different lines from an incoming laser light (White laser, Ar<sup>+</sup>, Kr<sup>+</sup>, HeNe, DPSS, Dye...).

Up to 8 distinct lines can be mixed and separately modulated in order to generate different colorimetric patterns.

Its associated thermal stabilisation maintains stable diffraction efficiency and reduces dramatically beam drift with single mode fiber pigtailed. This is a major advantage for high sensitivity applications.

The complete adjustment at factory provides to user an incredible gain of time and flexibility for the use of this device.

### Specifications

<b>Material-Acoustic mode</b>	TeO <sub>2</sub> [S]
<b>Acoustic Velocity</b>	Nom V=650 m/s
<b>Number of Lines</b>	8
<b>Optical Wavelength range</b>	400-650 nm
<b>Spectral resolution</b>	1-4 nm
<b>Insertion Losses <sup>(1)</sup></b>	< 6 dB (nom 4.5 dB) <sup>(2)</sup>
<b>Extinction ratio</b>	> 50 dB
<b>Rise / Fall time</b>	< 3 μs
<b>Fibers type</b>	Polarization Maintaining PM480
<b>Polarization extinction ratio</b>	> 15 dB
<b>Fibers connectors</b>	Super FC/PC
<b>Max Input Laser power</b>	0.5 W
<b>Input impedance</b>	Nom 50 Ω
<b>V.S.W.R.</b>	Nom < 2/1
<b>RF Power</b>	≤ 1 Watt
<b>RF Connector</b>	SMA
<b>Size / Weight</b>	(Lxhx) mm <sup>3</sup> / g
<b>Temperature stabilization</b>	Type TN enclosed
<b>Operating Temperature</b>	10 to 40 °C



- (1) This spec includes : optical transmission through the fibers and the crystal, diffraction efficiency and coupling losses. Losses at FC connectors are not included.
- (2) Results of measurement may vary versus setup.
- (3) Measured line by line.

## Outline Drawing

sizes in mm

