The AOTF1331 Acousto–Optic Tuneable Filter has been optimised for operation in the wavelength range of 2500 nm to 4000 nm. The wavelength of the diffracted light is selected by application of a corresponding RF drive frequency. A thermal electric cooler (TEC) is fitted for applications requiring high temperature stability. Isomet grown Tellurium Dioxide (TeO₂), is utilized as the interaction material.

**SPECIFICATIONS**

- Interaction Material: TeO₂
- Aperture: 7mm x 7mm **
- Wavelength Range: 2500nm - 4000nm
- Bandwidth: 30nm to 50nm
- Acceptance Angle (V): 5.0° (Nominal)
- Acceptance Angle (H): 5.0° (Nominal)
- Separation Angle: 6.78°
- Frequency: 24 - 39 MHz
- Diffraction Efficiency: >50% Over Bandwidth
- RF Drive Power: 4.0 Watts (Nominal)

** Contact Isomet for alternative apertures

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**Concept diagram**

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**ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

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Quality Assured.
In-house: Crystal Growth, Optical Polishing, A/R coating, Vacuum Bonding
AOTF1331
AO Tuneable Filter

OUTLINE DRAWING

ELECTRONICS

Suitable drive electronics include the Isomet iSPA-SF1-y frequency synthesizer/amplifier.

The TEC controller is not supplied.