

## Free-space AOM (Acousto-Optic Modulator)

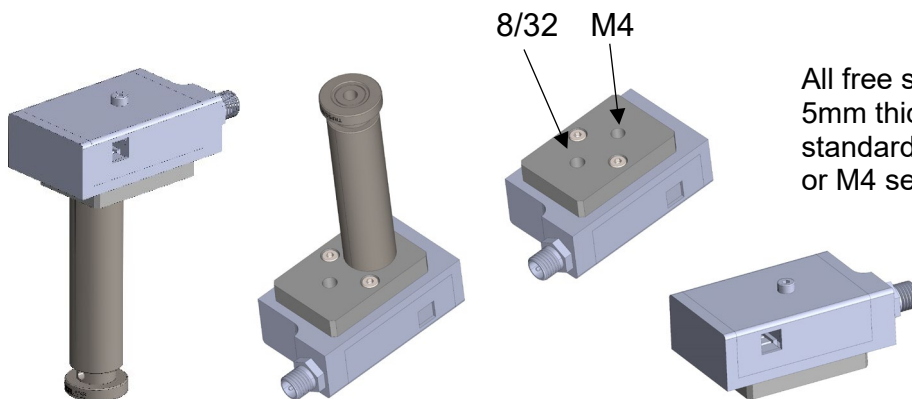
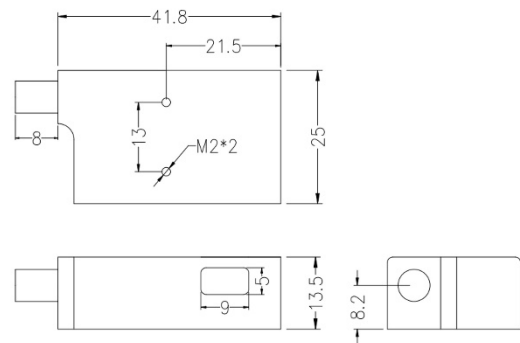
High speed 200 MHz version – 400 nm

Reference: 400FSAOM-200-0.5

Technology/Crystal: TeO<sub>2</sub>\*

SPECIFICATIONS	Unit	Min	Typ.	Max	Comments
AOM Material			TeO <sub>2</sub>		
Wavelength	nm	380	400	600	Customizable
RF Frequency	MHz		200		
Active Aperture	mm		0.5		
Input impedance	Ω		50		
Frequency shift	MHz		200		
RF Power	W		0.5		
Max Optical Input CW/average Power	W			15	
Max Optical Power/surface	MW/cm <sup>2</sup>			50	
Efficiency (optimized beam conditions)	%	80	85		
Rise/fall time (beam 250 μm)	ns		40		
Rise/fall time (beam 100 μm)	ns		16		
Crystal coating transmittance (per surface)	%	99.5			
Electrical input interface			SMA		
Working temperature	°C	-20		60	
Storage temperature	°C	-30		70	
Dimensions	mm <sup>3</sup>	41.8*25*13.5			
Mounting holes diameter	mm		M2		
Diffraction Angle = $\lambda \cdot f / V$ (with : $\lambda$ : wavelength (in nm) ; f : RF frequency (in MHz) ; V=4200)	mrad		19.0		

\*: See our tutorial: [fiber modulator](#)



All free space AOMs are supplied with a 5mm thick adapter plate compatible with standard pedestal bases with either 8/32 or M4 setscrews.