

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

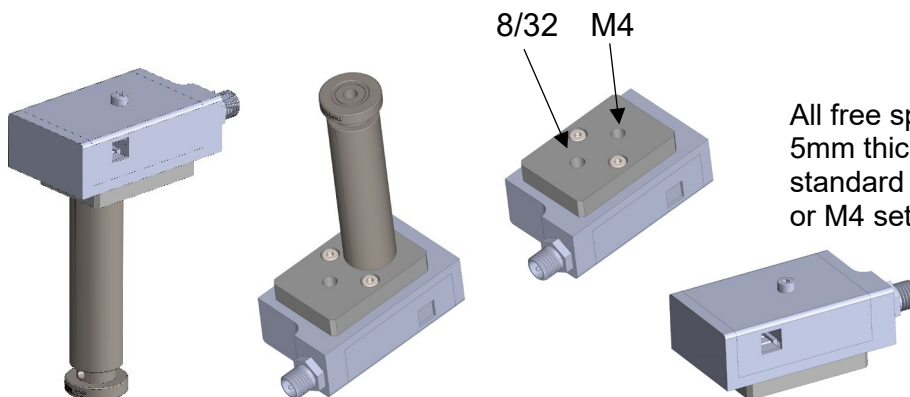
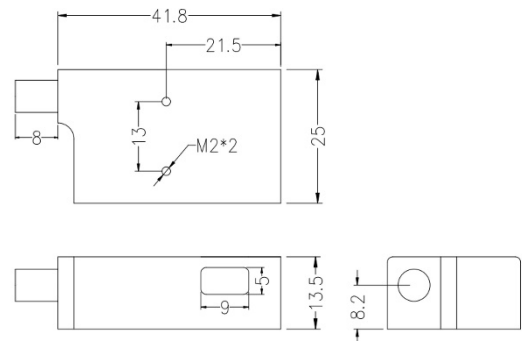
Standard 80 MHz version – 532 nm

Reference: 532FSAOM-80-2.0

Technology/Crystal: TeO2\*

SPECIFICATIONS	Unit	Min	Typ.	Max	Comments
AOM Material			TeO2		
Wavelength	nm	380	532	600	Customizable
RF Frequency	MHz		80		
Active Aperture	mm		2		
Input impedance	$\Omega$		50		
Frequency shift	MHz		80		
RF Power	W		1.5		
Max Optical Input CW/average Power	W			15	
Max Optical Power/surface	MW/cm <sup>2</sup>			50	
Efficiency (optimized beam conditions)	%	85	88		
Rise/fall time (beam 1000 $\mu$ m)	ns		160		
Rise/fall time (beam 400 $\mu$ m)	ns		65		
Crystal coating transmittance (per surface)	%	99.5			
Electrical input interface			SMA		
Working temperature	$^{\circ}$ C	-20		60	
Storage temperature	$^{\circ}$ C	-30		70	
Dimensions	mm <sup>3</sup>	41.8*25*13.5			
Mounting holes diameter	mm		2*M2		
Diffraction Angle = $\lambda$ *f/V (with : $\lambda$ : wavelength (in nm) ; f : RF frequency (in MHz) ; V=4200)	mrad		10.1		

\*: 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.