

## 638nm Free-Space Acousto-Optic Modulator

### Model

Z-638-100-L-T-D2-T-A-K

### Application

Optical Switch  
Optical Wavelength Shift

### General Specification

Parameter	Unit	Min	Max	Typical	Comments
Material				TeO <sub>2</sub>	
Wavelength	nm	600	680	638	
Average optical power handling	W			30	
Ultrasonic Velocity	m/s			4200	
Diffraction Efficiency	%		90	85	
Center Frequency	MHz			100	Customizable
Frequency Shift	MHz			100	
Frequency Bandwidth	MHz			± 10	
Extinction Ratio (1st order on / off)	dB	30			
Optical Aperture (L*H)	mm			3*2	Customizable
Radio Frequency Power	W			1.8	
Rise Time	ns		400		
VSWR				1.2:1	
Input Impedance	Ω			50	
Deflection Angle	mrad			15.1	
Device Interface				SMA	
Working temperature	°C			-10~60	
Storage Temperature	°C			-20~70	

