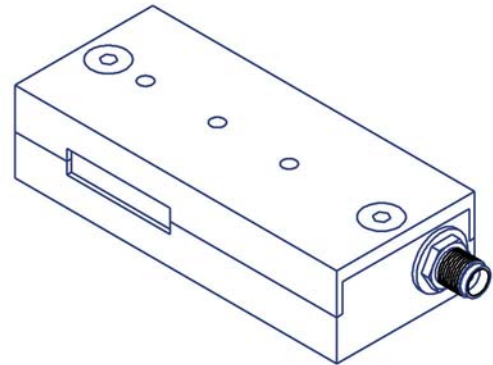


MODEL ACM SERIES ACOUSTO-OPTIC MODULATOR/ FREQUENCY SHIFTER

- NEAR IR WAVELENGTH RANGE
- INTENSITY MODULATION
- OPTICAL FREQUENCY SHIFTING
- OPTICAL ISOLATION
- LOW RF DRIVE POWER
- HIGH RELIABILITY
- HIGH OPTICAL POWER CAPABILITY



SPECIFICATIONS				
Acousto-optic Material	AMTIR-I Chalcogenide Glass			
Optical Wavelength ¹	1.2 to 1.6 μm			
Optical Power Capability	50 kW / cm^2			
Active Aperture Height ²	2 mm			
Diffraction Efficiency	90%			
RF Drive Power ³	600 mW (1.55 μm)			
RF Input Impedance	50 ohms			
Modulation Bandwidth (-3db)	1.25 MHz (1.5 mm diameter)			
Optical Rise Time	255 ns/mm beam diameter			
Static Optical Insertion Loss	5% (1.55 μm)			
Optical Polarization	Any			
RF Connector	SMA			
Size (less connector)	2.80 L x 1.25 W x 0.70 H inches			
	71.2 L x 31.8 W x 17.8 H mm			
MODEL	ACM-402AAI	ACM-502AAI	ACM-802AAI	ACM-1002AAI
Center Frequency ⁴	40 MHz	50 MHz	80 MHz	100 MHz
Optical Frequency Shift	± 30 to 50 MHz	± 40 to 60 MHz	± 65 to 95 MHz	± 80 to 120 MHz
Beam Separation (1.55 μm)	24.6 mrad	30.8 mrad	49.2 mrad	61.5 mrad

¹ Wavelengths available in the range of 1.2 to 2.5 μm with appropriate antireflection coating. Specifications vary with optical wavelength.

² Other active aperture heights available with modified specifications.

³ Fixed frequency, synthesized variable frequency, or OEM drivers are available.

⁴ Any RF frequency from 40 to 250 MHz is available. Specifications vary with RF frequency.