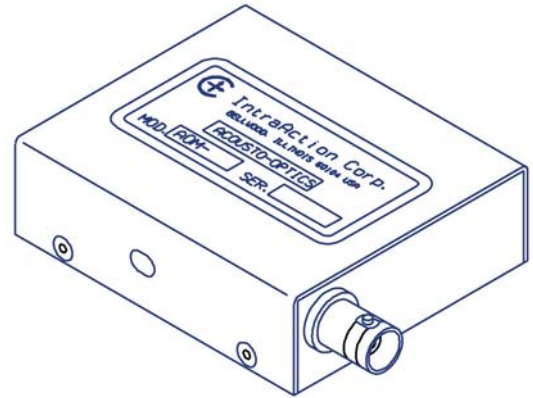


# MODEL AOM SERIES ACOUSTO-OPTIC MODULATOR/ FREQUENCY SHIFTER

- HIGH OPTICAL POWER CAPABILITY
- INTENSITY MODULATION
- OPTICAL FREQUENCY SHIFTING
- LASER BEAM DEFLECTION
- HIGH RELIABILITY
- EXCELLENT TEMPERATURE STABILITY



SPECIFICATIONS			
Optical Wavelength Range	440 to 700 nm		
Acousto-optic Material	Dense Flint Glass		
Active Aperture Height <sup>1</sup>	2 mm		
RF Input Impedance	50 ohms		
Modulation Bandwidth(-3db)	2.9 MHz (1.0 mm beam diameter) 1.9 MHz (1.5 mm beam diameter)		
Optical Rise Time	170 ns (1.0 mm diameter) 245 ns (1.5 mm diameter)		
Static Optical Insertion Loss	2% (633nm)		
Optical Polarization	Any		
RF Connector	BNC		
Size (less connector)	74.6 x 62.5 x 22.4 mm 2.94 x 2.46 x 0.88 inches		
MODEL	AOM-602	AOM-702	AOM-8028
Center Frequency <sup>2</sup>	60 MHz	70 MHz	80 MHz
Optical Frequency Shift Range	±(50 to 70)MHz	±(55 to 85)MHz	±(65 to 95)MHz
Diffraction Efficiency	90%	85%	80%
Drive Power <sup>3</sup>	2 Watts (633 nm)	2 Watts (633 nm)	2 Watts (633 nm)
Beam Separation	9.6 mrad (633 nm)	11.2 mrad (633 nm)	12.8 mrad (633 nm)

<sup>1</sup> Other active aperture heights available.

<sup>2</sup> Other center frequencies available.

<sup>3</sup> A complete line of analog and digital OEM and laboratory drive electronics are available.