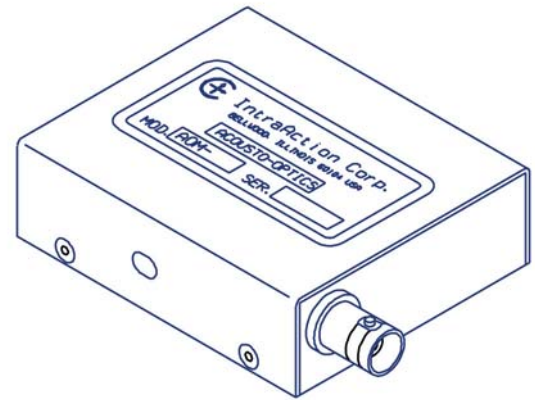


MODEL AOM-40 ACOUSTO-OPTIC MODULATOR/ FREQUENCY SHIFTER

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



SPECIFICATIONS			
Acoustic Center Frequency ¹	40 MHz		
Optical Frequency Shift Range	±(30 to 50) MHz		
Active Aperture Height ²	2 mm		
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 beam diameter)		
	245 ns (1.5 mm beam diameter)		
Acousto-optic Material	Dense Flint Glass		
Static Optical Insertion Loss	2% (633nm)		
Optical Polarization	Any		
RF Input Impedance	50 ohms		
RF Connector	BNC		
Size(less connector)	2.94 L x 2.46 W x 0.88 H inches		
	74.7 L x 62.5 W x 22.4 H mm		
MODEL	AOM-40	AOM-40N	AOM-40R8
Optical Wavelength Range	440-700 nm	700-1100 nm	1.06 μm
Diffraction Efficiency	90%	85%	80%
Drive Power ³	2 Watts (633 nm)	3.5 Watts (830 nm)	5 Watts
Beam Separation	6.5 mrad (633 nm)	8.5 mrad (830 nm)	10.8 mrad

¹ Other center frequencies available.

² Other active aperture heights available.

³ A complete line of analog, digital, dual frequency, OEM, and laboratory drive electronics are available.