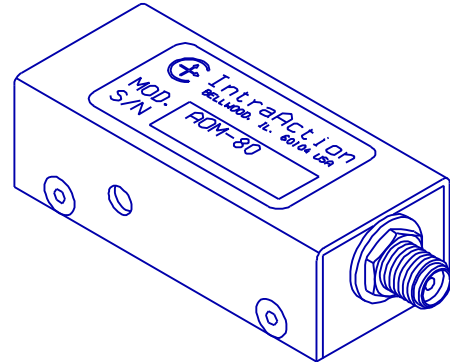


MODEL AOM-80 MODEL AOM-110
ACOUSTO-OPTIC MODULATOR

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



SPECIFICATIONS

Optical Wavelength Range	440 nm to 700 nm
Acousto-optic Material	Dense Flint Glass
Static Optical Insertion Loss	2 Percent (633nm)
Optical Polarization	Any
RF Input Impedance	50 Ohms
RF Connector	SMA
Size(less connector)	2.00 D x 0.63 H x 0.88 W inches 50.8 D x 16.1 H x 22.4 W mm

MODEL AOM-80

Acoustic Frequency	80 MHz	
Active Aperture Height	1 mm	
Optical Wavelength	<u>442 nm</u>	<u>633 nm</u>
Beam Separation	9.7 mrad	13.9 mrad
RF Drive Power	1 watt	2 watts
Static Optical Insertion Loss	7 percent	2 percent
Beam Diameter	0.18 mm / 0.36 mm	0.18 mm / 0.36 mm
Optical Rise Time	35 nsec / 70 nsec	35 nsec / 70 nsec
Modulation Bandwidth	15 MHz / 7.5 MHz	15 MHz / 7.5 MHz
Diffraction Efficiency	80 % / 85 %	70 % / 80 %

MODEL AOM-110

Acoustic Frequency	110 MHz	
Active Aperture Height	0.6 mm	
Optical Wavelength	<u>442 nm</u>	<u>633 nm</u>
Beam Separation	13.4 mrad	19.2 mrad
RF Drive Power	1 watt	2 watts
Static Optical Insertion Loss	5 percent	2 percent
Beam Diameter	0.14 mm / 0.28 mm	0.14 mm / 0.28 mm
Optical Rise Time	24 nsec / 48 nsec	24 nsec / 48 nsec
Modulation Bandwidth	20 MHz / 10 MHz	20 MHz / 10 MHz
Diffraction Efficiency	80 % / 80 %	70 % / 70 %