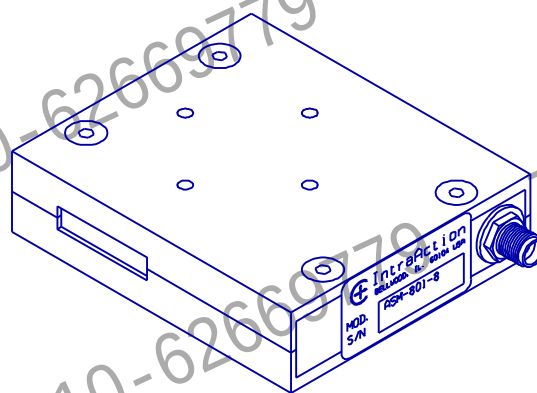




**MODEL ASM SERIES
UV ACOUSTO-OPTIC MODULATOR**

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



SPECIFICATIONS

Optical Wavelength Range	300 to 400 nm
Acousto-optic Material	UV Grade Fused Silica
Optical Insertion Loss	<4 percent
Optical Polarization	Linear vertical
Weight	175 grams
RF Connector	SMA
Size (less connector)	2.80 L x 2.40 W x 0.70 H inches 71.2 L x 61.0 W x 17.8 H mm
Input Impedance	50 ohms

MODEL

	<u>ASM-851B8</u>	<u>ASM-702B8</u>
Center Frequency ¹	85 MHz	70 MHz
Beam Separation ² (360 nm)	5.14 mrad	4.24 mrad
Frequency Shift Range	"(70 to 100) MHz	"(55 to 85) MHz
Active Aperture Height	1 mm	2 mm
Diffraction Efficiency	80 percent	80 percent
RF Drive Power ^{3,4} (360 nm)	2 watts (360 nm)	2 watts (360 nm)
Modulation Bandwidth(-3db)	20 MHz (0.22mm dia.)	8.8 MHz (0.5mm dia.)
Optical Rise Time	24 nsec (0.22mm dia.)	55 nsec (0.5 mm dia.)

¹ Other frequencies available upon request

² Beam separation varies with optical wavelength

³ RF drive power varies with optical wavelength

⁴ Drive electronics available. ME-70/ME-85 (analog). ME-70T/ME-85T (digital) . OEM drivers also available.