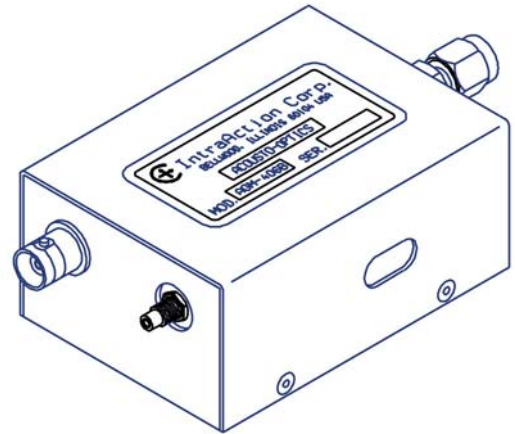


MODEL AGM-406BI IR ACOUSTO-OPTIC MODULATOR/ FREQUENCY SHIFTER

- INTENSITY MODULATION
- OPTICAL FREQUENCY SHIFTING
- OPTICAL ISOLATION
- LASER BEAM DEFLECTION
- HIGH RELIABILITY
- HIGH OPTICAL POWER CAPABILITY



SPECIFICATIONS	
Optical Wavelength ¹	10.6 μm
Acousto-optic Material	Optical Single Crystal Germanium
Acoustic Velocity	5.5 mm/ μs
Center RF Frequency ²	40 MHz
RF Bandwidth	20 MHz
Optical Frequency Shift Range	\pm (30 MHz to 50 MHz)
Beam Separation	77 mrad (40 MHz)
Bragg Angle	38.5 mrad (40 MHz)
Diffraction Efficiency	85%
RF Drive Power ³	30 Watts
Active Aperture Height	6 mm
Modulation Bandwidth (-3db)	750 kHz (5.5 mm diameter)
Optical Rise Time	117 ns / mm beam diameter
RF Input Impedance	50 ohms
Optical Insertion Loss	<12%
Optical Power Capability	100 Watts full aperture
Optical Polarization	Parallel to mounting surface
Water Cooling	500 ml / min at 20°C
Thermal Interlock Switch	NC opens at 45°C
Size (less connectors)	2.97 D x 1.50 H x 2.42 W inches
	75.4 D x 38.1 H x 61.5 W mm

¹ Other wavelengths and ranges from 2.5-11.5 μm available. Note: Specifications change with optical wavelength.

² Other frequencies available.

³ A complete line of drive electronics are available. Model GE-4030 analog input, GE-4030T digital input. OEM drivers are available.