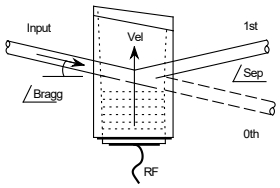


M1137-SF50L-1.5

Acousto-Optic Modulator

ISOMET

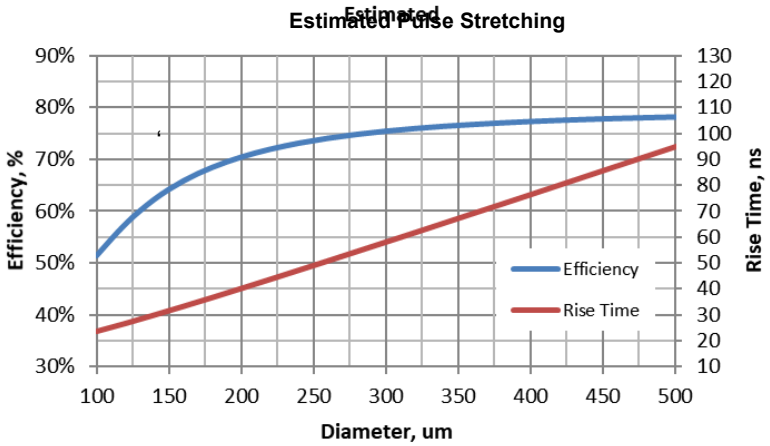
0419

The M1137 is low dispersion Glass AOM designed primarily for Ti:Sapphire laser applications.
This model offers a practical compromise between aperture size, diffraction efficiency and pulse stretching characteristics.

SPECIFICATIONS

Interaction Material:	SF57
Optical path length:	24mm
Refractive Index:	1.8
Standard Operating Wavelengths:	700nm - 1064nm
Polarization:	Vertical preferred
Acoustic Velocity:	3411 m/s
Active Aperture:	1.5 mm
Centre Frequency:	50 MHz
RF Bandwidth:	20 MHz
Input Impedance:	50 ohms (nominal)
VSWR:	< 1.5:1 @ 50 MHz
DC. Contrast Ratio:	> 1000:1 min (2000:1 typical)
Static Insertion Loss:	≤ 3.0%

PERFORMANCE



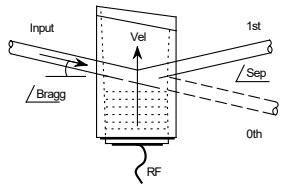
WL nm	t input fsec	t output fsec
700	130 / 70	230 / 360
800	130 / 70	205 / 300
900	130 / 70	185 / 255
1000	130 / 70	170 / 215

	780nm	830nm	1064nm
Saturation RF Power (typ'):	3.0W	3.5W	6.0W
Separation Angle @ 50 MHz:	11.43mrad	12.19mrad	15.6mrad
Bragg Angle @ 50MHz:	5.69mrad	6.06mrad	7.80mrad
(*For maximum average RF Drive 3.0W)*			
Diffraction Efficiency:	>80%	>80%	>50%

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.
Tel: (703) 321 8301 Fax: (703) 321 8546
E-mail: ISOMET@ ISOMET.COM ***Web Page: WWW.ISOMET.COM***

Quality Assured.
In-house: Crystal Growth, Optical Polishing, A/R coating, Vacuum Bonding



M1137-SF50L-1.5

Acousto-Optic Modulator

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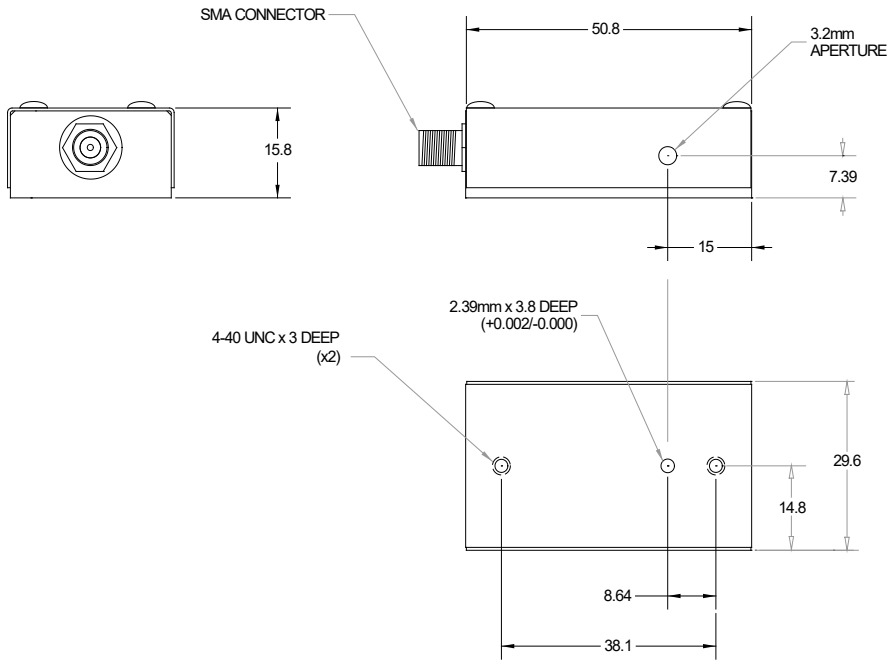
OUTLINE DRAWING



Option –M, metric mounting threads, M3
Mount device to heat conducting surface

RF DRIVE ELECTRONICS

Digital modulation: 521C-4-50 Analog modulation: 531C-4-50 Dual modulation: 551F-4-50
Tuneable with modulation 630A-40 (VCO), iSPA-SF1-a (DDS)

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