

M1205-P80L-1, -2, -3

Acousto-Optic Modulator



0426

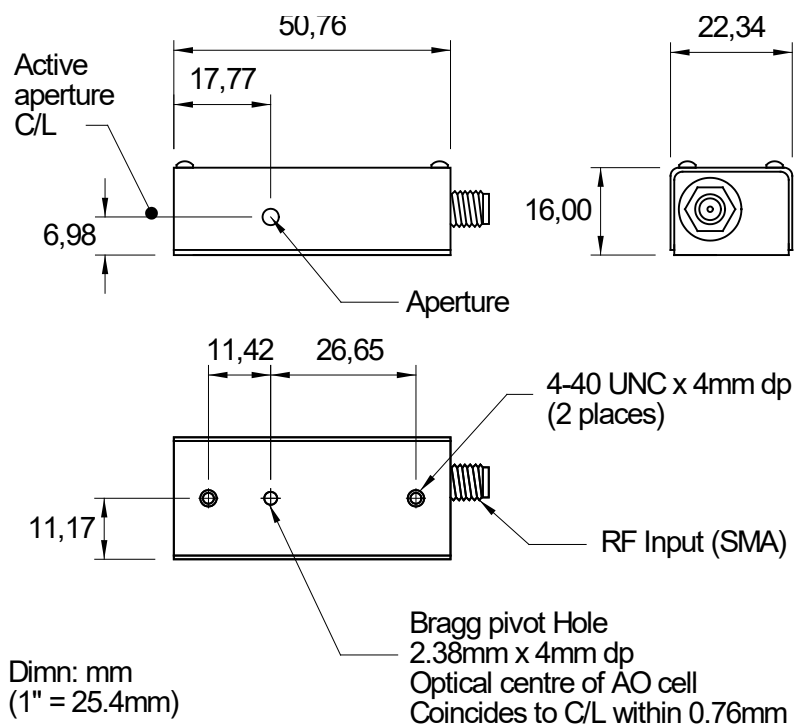
APPLICATIONS

- Intensity Modulator
- Low Resolution Deflector
- Frequency Shifter

RF Drive Electronics

Digital modulation	522F-1 / -2, RG2-080
Analog modulation	532F-1 / -2, RG3-080
Dual modulation	552F-1 / -2, RG5-080
Tuneable with modulation	RF5-80T-2, iCSA-100-1-1

OUTLINE DRAWING

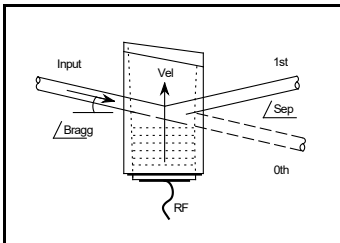


Option: Metric fixing holes, M3-0.5 thread: add suffix -M

Note: Mount device to heat conducting surface

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ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA 20109, USA.
Tel: (703) 321 8301 Fax: (703) 321 8546
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Quality Assured.
In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding



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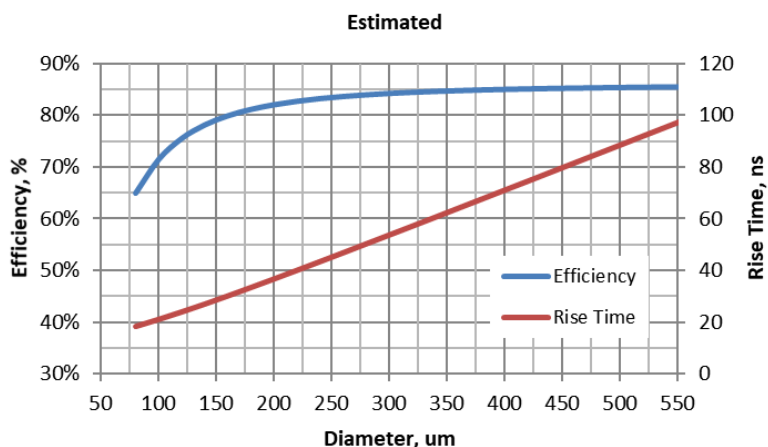
SPECIFICATIONS

A/R Operating Wavelengths:	488-633nm		
Interaction Medium:	Lead Molybdate (PbMoO ₄)		
Acoustic Velocity:	3.63mm/ μ s		
	Model:	M1205.. -1, (-3)	M1205.. -2
Active Aperture:		1.0mm (3mm)	2.0mm
Centre Frequency (CF):		80MHz	80MHz
RF Bandwidth (minimum):		30MHz (+/- 15MHz)	40MHz (+/- 20MHz)
Input Impedance:		50 Ω nominal	
VSWR:		<1.5:1 @ 80MHz	
DC Contrast Ratio:		>1000:1 min (>2000:1 typical)	

PERFORMANCE vs. WAVELENGTH

Wavelength:		488nm	515 nm	633nm
RF Drive Power (typ')	M1205..-1	0.32W	0.35W	0.6W
	M1205..-2	0.6W	0.65W	1.0W
	M1205..-3	0.9W	1.0W	1.8W (peak)
Bragg angle:		5.4 mrad	5.7 mrad	7.0 mrad
Beam Separation:		10.7 mrad	11.3 mrad	13.9 mrad
Static Insertion Loss:		< 7%	< 3%	< 3%

PERFORMANCE vs. BEAM DIAMETER at 515nm



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