

M1205-P80L-1, -2, -3

Acousto-Optic Modulator



0419

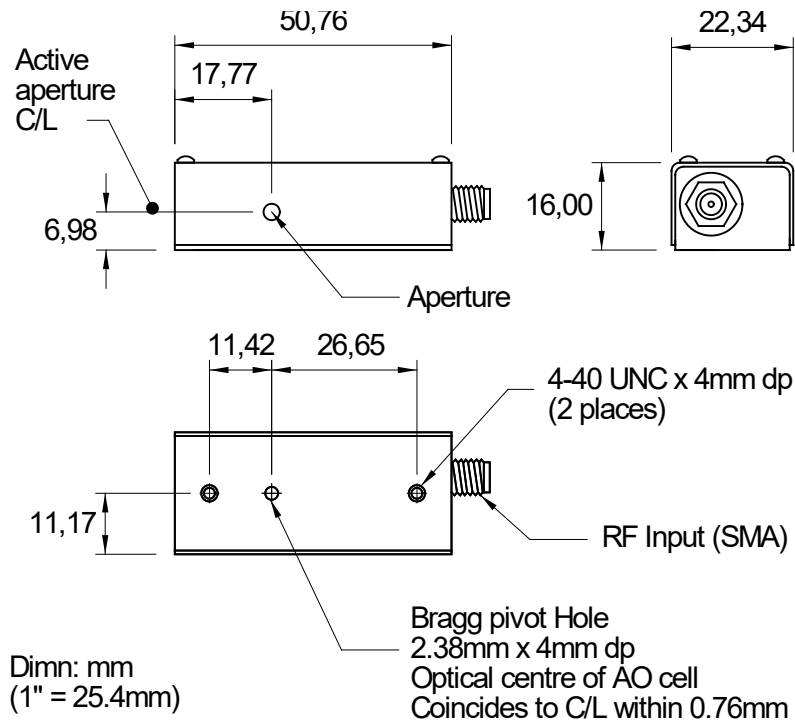
APPLICATIONS

- Intensity Modulator
- Low Resolution Deflector
- Frequency Shifter

RF Drive Electronics

Digital modulation	522C-L / -2, 822C-L
Analog modulation	532C-L / -2, 832C-L
Dual modulation	552F-L / -2
Tuneable with modulation	630C-80, iSPA-SF1-w

OUTLINE DRAWING

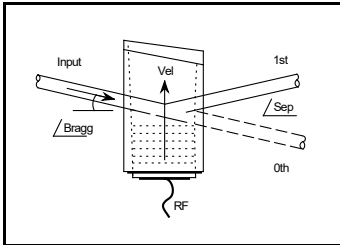


Option: Metric fixing holes, M3-0.5 thread: add suffix -M

Note: Mount device to heat conducting surface

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 ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA 20109, USA.
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Quality Assured.
 In-house: Crystal Growth,
 Optical Polishing,
 A/R coating, Vacuum Bonding



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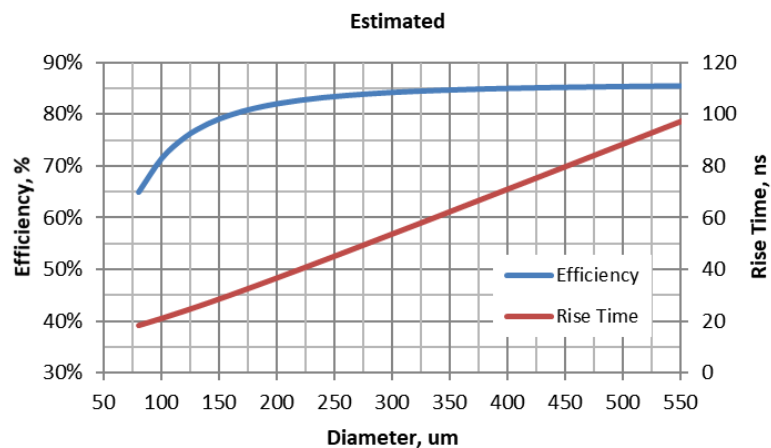
SPECIFICATIONS

A/R Operating Wavelengths:	488-633nm	
Interaction Medium:	Lead Molybdate (PbMoO ₄)	
Acoustic Velocity:	3.63mm/μs	
	Model:	1205C-1, (-3) 1205C-2
Active Aperture:	1.0mm (3mm)	2.0mm
Centre Frequency (CF):	80MHz	80MHz
RF Bandwidth (minimum):	30MHz (+/- 15MHz)	40MHz (+/- 20MHz)
Input Impedance:	50Ω 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')	1205C-1	0.32W	0.35W	0.6W
	1205C-2	0.6W	0.65W	1.0W
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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