

1205C-x-804B

Acousto-Optic Modulator



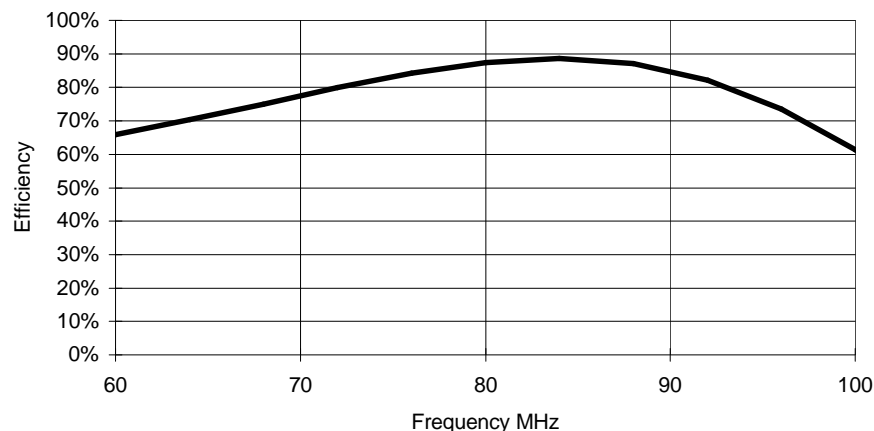
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This 1205C-x-804B series are designed primarily for use as low resolution deflectors with NIR laser diodes. The expanded RF bandwidth and large active aperture will also provide the capability for single and double-pass frequency shifting.

SPECIFICATIONS

Operating Wavelength:	633-830nm, or 750-850nm
Active Aperture:	
1205C-1-804B	1mm(H) x 6mm(L)
1205C-2-804B	2mm(H) x 6mm(L)
Centre Frequency (f_c):	80MHz
RF Bandwidth (Δf):	40MHz
Input Impedance:	50 ohms (nominal)
Access Time (τ):	1.6 μ sec
$\tau\Delta f$ Resolution:	66 spots
Bragg angle (f_c):	9.1mrad (830nm)
Separation angle (f_c):	18.3mrad (830nm)
Scan angle (Δf):	9.1mrad (830nm)
Diffraction Efficiency:	$\geq 85\%$ @ f_c
Static Insertion Loss:	$\leq 5\%$

TYPICAL PERFORMANCE at 830nm



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

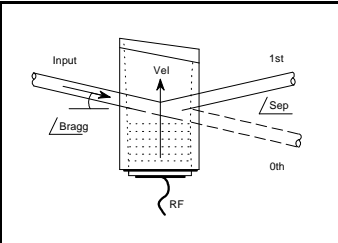
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Quality Assured.

**In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding**



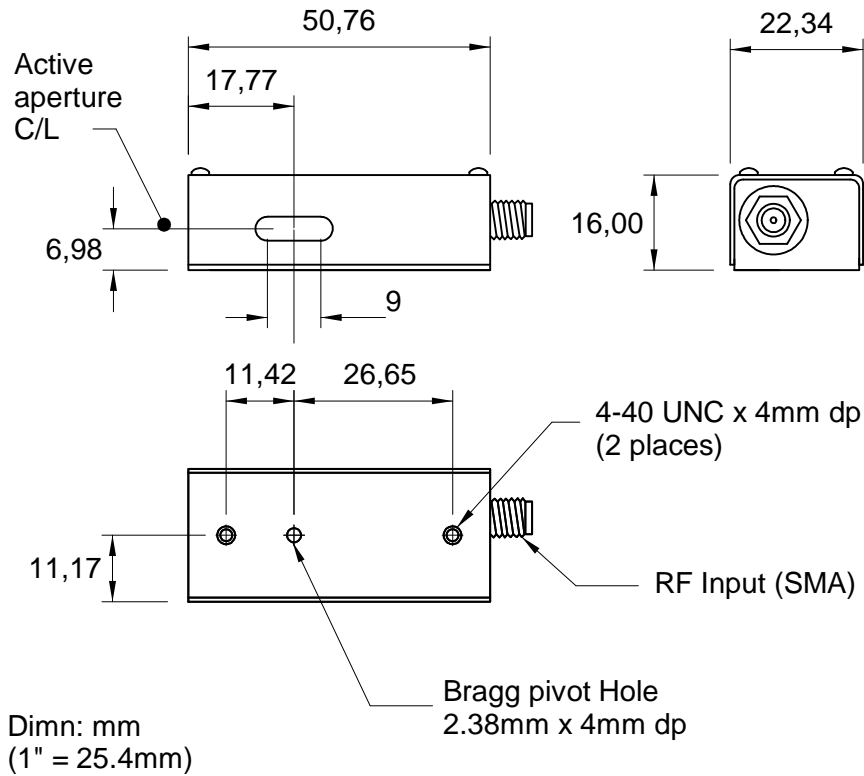
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OUTLINE DRAWING



DRIVER OPTIONS

Deflector:

620C-80 (VARIABLE FREQUENCY & DIGITAL MOD'N)
630C-80 (VARIABLE FREQUENCY & ANALOG MOD'N)

Frequency Shifter:

522C-2 (DIGITAL MODULATION)
532C-2 (ANALOG MODULATION)

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