

1205C-x-804B

Acousto-Optic Modulator



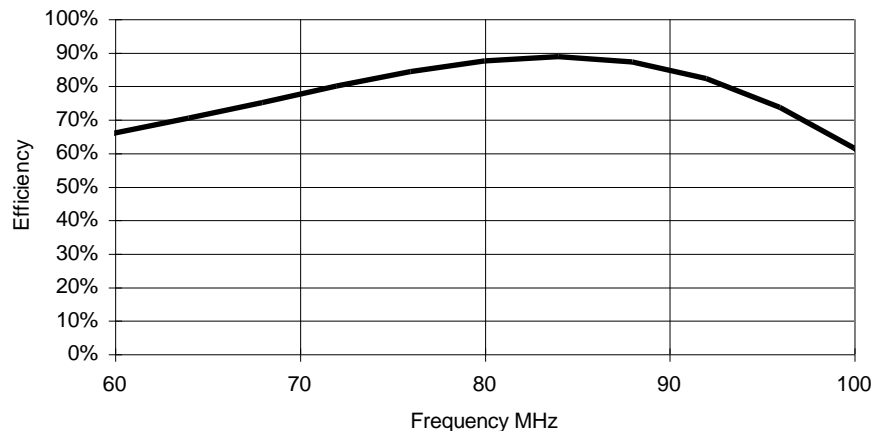
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This 1205C-x-804B series are designed primarily for use as low resolution deflectors with NIR laser diodes. The expanded RF bandwidth and large active aperture will also provide the capability for single and double-pass frequency shifting.

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

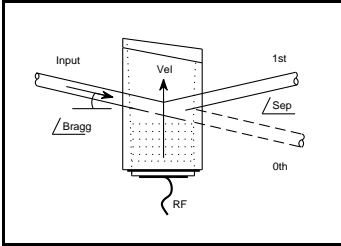
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Quality Assured.

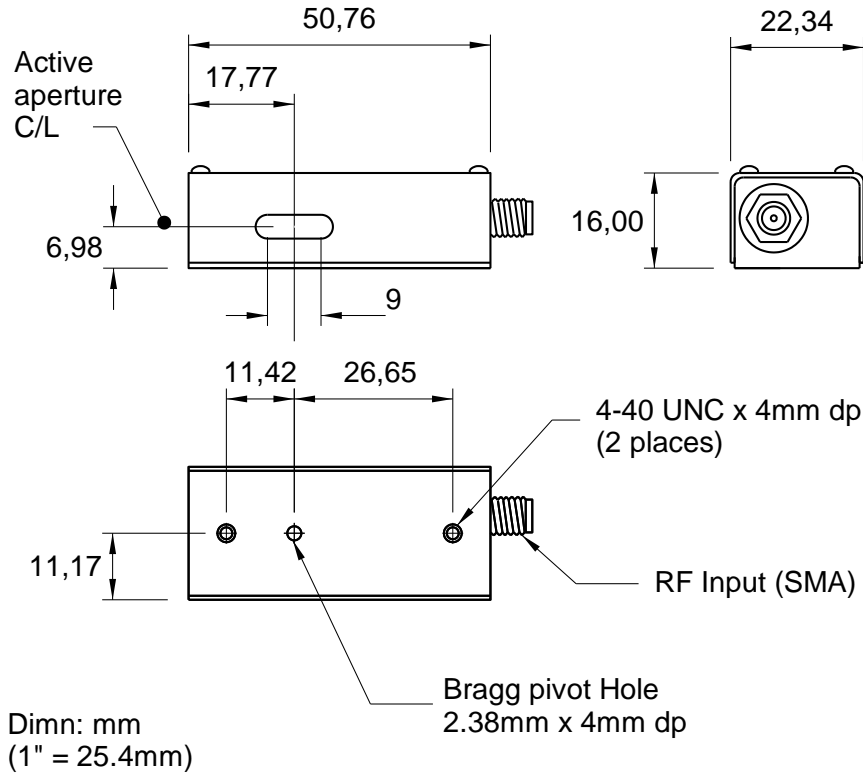
**In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding**



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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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