

# 1250C-868

## NIR Acousto-Optic Modulator



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The 1250C-868 design has been optimised for the best performance as an intensity modulator or frequency shifter in the NIR wavelength region of 1 –1.2um.

### SPECIFICATIONS

Operating Wavelength:	1.06µm *
Interaction Material:	Tellurium Dioxide (TeO <sub>2</sub> )
Active Aperture (mm):	0.50
Centre Frequency (fc):	150MHz
Tuned RF Bandwidth (Δf):	50MHz
Diffraction Efficiency (%):	≥ 50.0 **
RF Power Input	< 2.0 Watts
Static Insertion Loss (%):	≤ 3.0
Bragg Angle (mrad):	19.0
Separation Angle (mrad):	38.0
D.C. Contrast Ratio:	>1000:1 min (2000:1 typical)

\* Other NIR wavelengths available

\*\* Limited by maximum RF power dissipation

### RECOMMENDED RF DRIVE ELECTRONICS:

Model 524C-2 (Digital Modulation)

Model 534C-2 (Analog Modulation)

#### ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

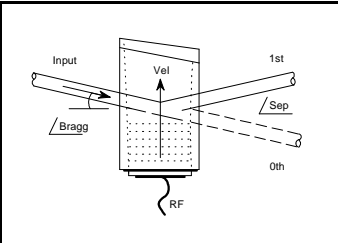
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Quality Assured.

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



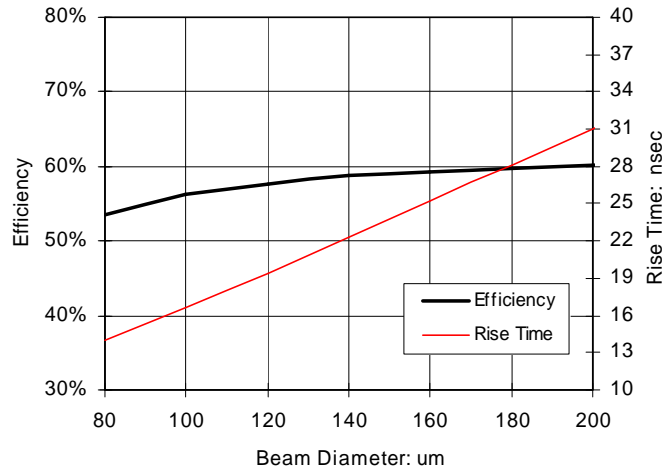
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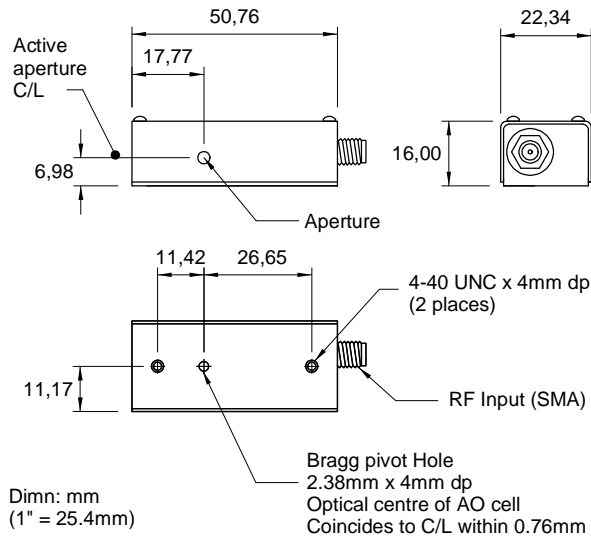


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### TYPICAL PERFORMANCE vs. BEAM DIAMETER (RF drive = 2.0W)



### OUTLINE DRAWING



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