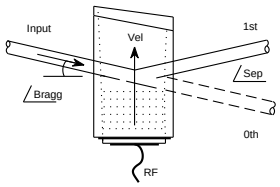


OPT-1

Acousto-Optic Bragg Cell

0414

A long time aperture Acousto-optic Bragg Cell for Optical Signal Processing Applications

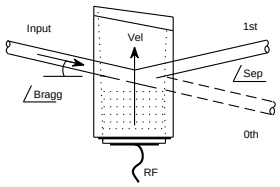
OPERATING PARAMETERS

*Operating Wavelength:	633nm
$\tau\Delta f$:	1500
Centre Frequency:	45MHz
3dB Bandwidth:	30MHz
Active Aperture:	4mmH x 31mmL
Time Aperture:	50μs
Interaction Medium:	TeO_2 - Shear (110)
Acoustic Velocity:	.617mm/μs
Diffraction Efficiency:	> 50% at 0.5 Watts RF Power
Input Impedance:	50Ω
Input VSWR:	$\leq$ 2:1 across RF Bandwidth
Electrode Profile:	Apodized to minimise acoustic walkoff
Optical Surface Flatness:	λ/10 or better
Optical Reflectivity:	$\leq$ .5%/Surface
RF Power (Maximum):	1.2 Watts

*Models are available for use at any wavelength within the range 442nm-850nm, but certain operating parameters differ, depending on the wavelength selected.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.
Tel: (703) 321 8301 Fax: (703) 321 8546
E-mail: ISOMET@ ISOMET.COM ***Web Page: WWW.ISOMET.COM***

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



OPT-1

Acousto-Optic Bragg Cell

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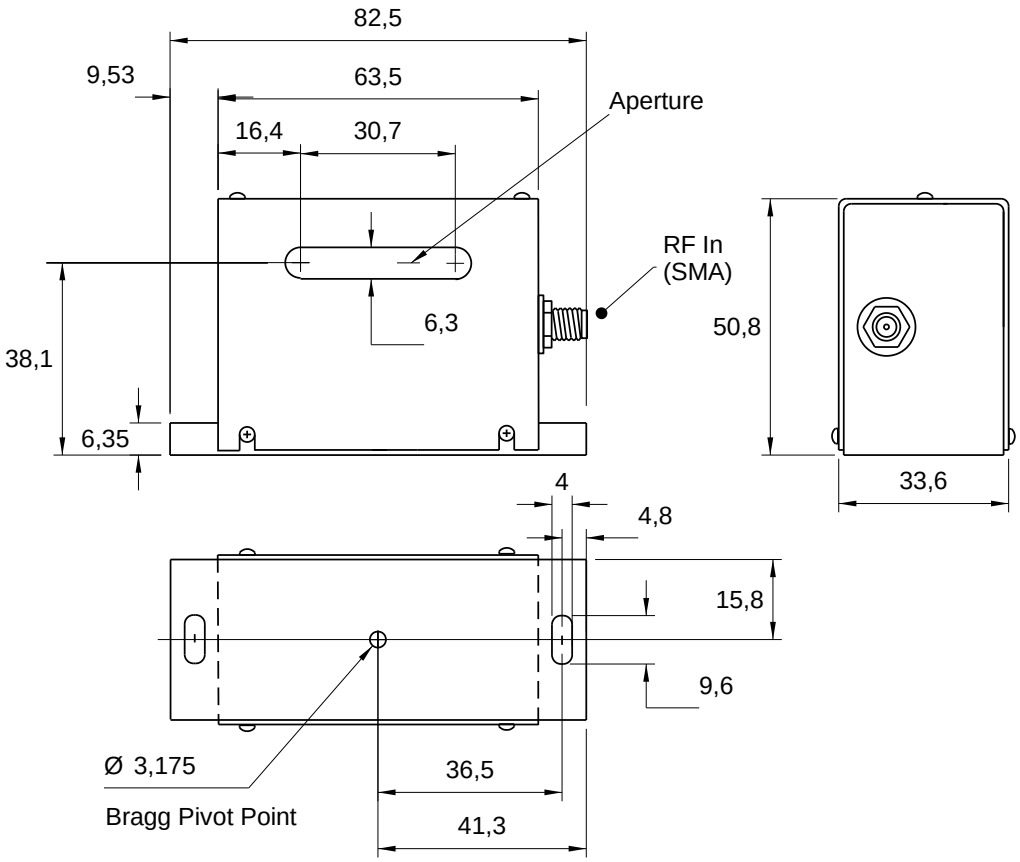
0414

OUTLINE DRAWING

Dim'n: mm



RECOMMENDED DRIVERS

521C-45 (Digital Modulation)
531C-45 (Analog modulation)

620C-40 (VCO driver with digital Modulation)
630C-40 (VCO driver with analog Modulation)
iSPA-SF1 (Synthesizer/amplifier with modulation)

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