

OPP-1

Acousto-Optic Bragg Cell



1106

A wide bandwidth Acousto-optic Bragg Cell for Optical Signal Processing Applications

OPERATING PARAMETERS

Operating Wavelength:	Any with the range 442-850nm
$\tau\Delta f$:	1000
Centre Frequency:	300MHz
3dB Bandwidth:	200MHz
Active Aperture:	1.5mmH x 19mmL
Time Aperture:	5 μ s
Interaction Medium:	PbMoO ₄
Acoustic Velocity:	3.63mm/ μ s
Diffraction Efficiency:	10% at 1 Watt RF Power (633nm)
Electrode Profile:	Apodized to minimise acoustic walkoff
Optical Surface Flatness:	$\lambda/10$ or better
Input Impedance:	50 Ω
Input VSWR:	$\leq 2:1$ across RF Bandwidth
Optical Reflectivity:	$\leq 0.5\%$ /Surface

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

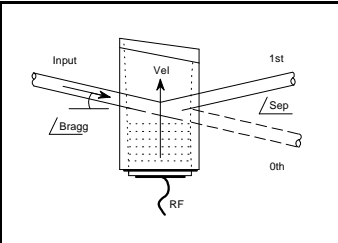
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

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**



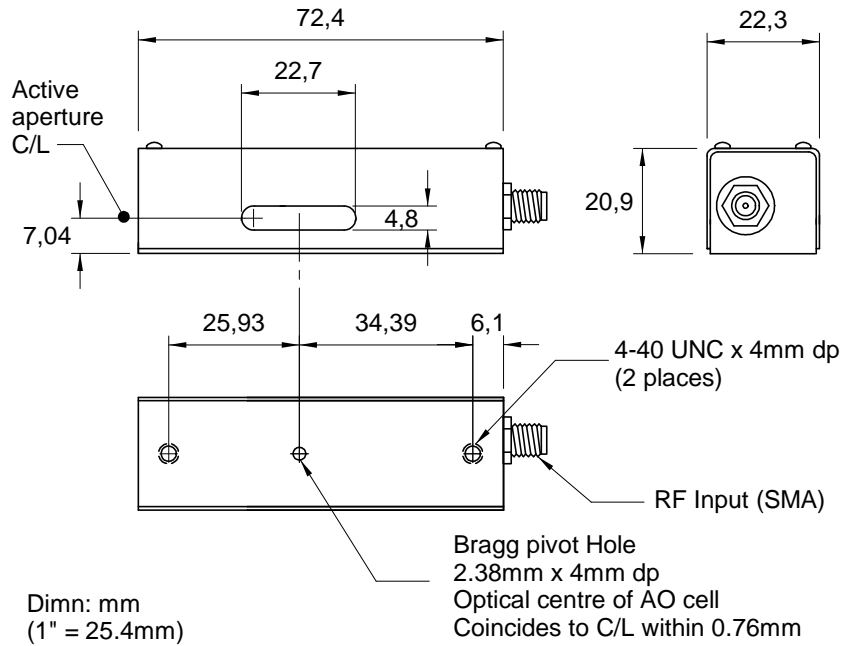
OPP-1

Acousto-Optic Bragg Cell



1106

OUTLINE DRAWING



RECOMMENDED DRIVER

527C-312 (312.5 MHz Digital Modulation)
537C-312 (312.5 MHz Analog modulation)

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**