



OPT-1-100

Acousto-Optic Bragg Cell



1106

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

OPERATING PARAMETERS

| | |
|---------------------------|---------------------------------------|
| *Operating Wavelength: | 633nm |
| $\tau\Delta f$: | 5000 |
| Centre Frequency: | 75MHz |
| 3dB Bandwidth: | 50MHz |
| Active Aperture: | 4mmH x 62mmL |
| Time Aperture: | 100 μ s |
| Interaction Medium: | TeO ₂ - Shear (110) |
| Acoustic Velocity: | 0.617mm/ μ s |
| Diffraction Efficiency: | > 50% at 0.5 Watts RF Power |
| Input Impedance: | 50 Ω |
| Input VSWR: | \leq 2:1 across RF Bandwidth |
| Electrode Profile: | Apodized to minimise acoustic walkoff |
| Optical Surface Flatness: | $\lambda/10$ or better |
| Optical Reflectivity: | \leq 0.5%/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.

RECOMMENDED DRIVER

522C-75 (Digital Modulation)
532C-75 (Analog modulation)

620C-80 (Variable frequency & Digital Modulation)
630C-80 (Variable frequency & 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

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Optical Polishing,
A/R coating, Vacuum Bonding