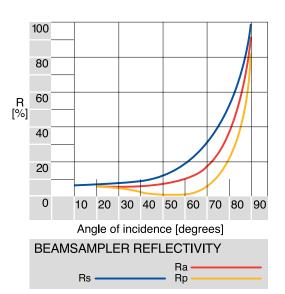
Beam Samplers

- Provides a 5% reflected sample of the entire beam
- Highly efficient Anti-Reflection coating on the second surface to eliminate ghosts
- Available in four standard diameters
- Wedged second surface also available for highly demanding applications
- Surfaces finished to λ/10 flatness
- Standard diameters from 25.4 to 50.8mm

About 5% of a beam incident at 45 degrees is reflected from one surface of these BK7 beam samplers. The faces are parallel to within 5arcsec with a highly effective Anti-Reflection coating on the second surface. This coating eliminates virtually all ghost image problems. The 5% reflected beam is useful for diagnostic sampling or monitoring of the optical beam.

Specifications & Tolerances

Surface flatness: $\lambda/10$ Diameter: +0, -0.2mm Surface quality: 20-10 Parallelism: \leq 5arcsec or 1° wedge Thickness: \pm 0.2mm Clear aperture: >90% diameter Bevel: 0.2mm x 45° typical Material: BK7, grade A Reflectance: $R_{av} = 5\%$ at 45° Wedge (optional): 1°



is an effective way of providing feedback information for stabilization or calibration. Often one is tempted to insert a small plane mirror in an unused or vignetted portion of the beam to provide the sample. The danger, of course, is that the chosen region may not be typical of the entire beam.

Sampling a beam

Beam Samplers

Diamet (Inches)	er, D (mm)	Thickness, t (mm)	Price	PART NUMBER
1.00	25.4	3.0		038-2450
1.18	30.0	3.0		038-2460
1.97	50.0	5.0		038-2470
2.00	50.8	5.0		038-2480

For a **1**° **wedged** substrate **append -W** to part number and add \$25 to the price. Note: Wedged substrates are several mm thicker. ORDERING & TECHNICAL SUPPORT (949) 851-5881 FAX (949) 851-5058 E-MAIL sales@optosigma.com WEB www.optosigma.com



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