Pinholes

- **Pinholes** are precision etched for exact sizing and clean edges
- **Standard Pinholes** are provided in a non-magnetic stainless steel substrate
- **High Power Pinholes** use copper foil for heat dissipation

We offer two types of pinhole, one for standard applications and one for high power use. The standard version uses stainless steel whereas the high power version uses copper foil. Since they are completely drilled through holes in the substrate they may be used at any wavelength. Because these pinholes are precision etched they are exceptionally round and free of any edge defects. The kerf generated by other drilling techniques is completely eliminated and the resulting holes are consistently round and precise in diameter.

Mounted Pinholes

The following pinholes are exactly as above but mounted in metal discs of 16mm diameter and marked with the pinhole diameter. They fit directly into the pinhole mounts on page 268 and the spatial filter on page 269. Mounting gives these pinholes extra strength and protection enabling them to be stored and handled more easily.

Specifications & Tolerances

Diameter: 9.5mm
Pinhole diameter: ±20% (<5 microns)
                  ±10% (>5 microns)
Laser damage threshold: standard 1KW/mm^2, 50nsec pulse
                        high power 1MW/mm^2, 50nsec pulse

Thickness: 12.5 microns
Centration: ±0.1mm
Material: Non-magnetic stainless steel or copper (high power)

OptoSigma®

Pinholes

Type	Pinhole Diameter (μm)	Unmounted		Mounted	
		Price	PART NUMBER	Price	PART NUMBER
Standard	1.0		088-2230		088-2710
Standard	2.0		088-2240		088-2720
Standard	5.0		088-2260		088-2730
Standard	10.0		088-2280		088-2740
Standard	25.0		088-2340		088-2750
Standard	50.0		088-2380		088-2760
Standard	100.0		088-2440		088-2770
High Power	5.0		088-2660		088-2830
High Power	10.0		088-2670		088-2840
High Power	25.0		088-2680		088-2850
High Power	50.0		088-2690		088-2860