Diamond Apertures

Applications

Diamond Apertures are used in high energy and power applications and are intended to be used in the optical transfer assembly of a system using a powerful laser as a source. A practical example is the aperture within a spatial filter assembly. For Q-Switching applications, consider a highly reflective aperture disc surface and a very high melting temperature disc material. We will custom fabricate aperture mounts to comply with the parameters of your assembly environment.

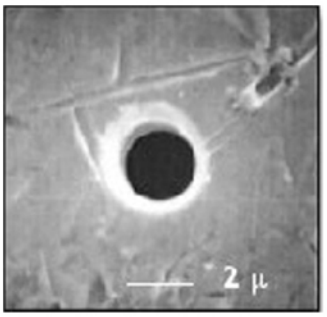
Diamond Aperture

Specifications

Diameter	Ø9.5mm +.025/-.050mm
Thickness	0.2mm
Centering	◎±0.125mm
Circularity	○ > 1.5μ
Material	CVD 100%Diamond mounted in a 3/8″ copper disk

Part #	Aperture	
	Dia. (μ)	Tol. +/- %
HP-3/8-DISC-DIM-5	5	15
HP-3/8-DISC-DIM-10	10	10
HP-3/8-DISC-DIM-15	15	10
HP-3/8-DISC-DIM-25	25	10
HP-3/8-DISC-DIM-50	50	10
HP-3/8-DISC-DIM-100	100	10
HP-3/8-DISC-DIM-250	250	5

*These apertures are unmounted
*For optional aperture mounting parts add part # MT-25 or MT-16

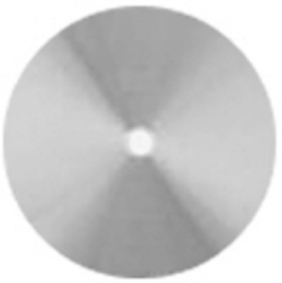


SEM Aperture Shot

Tungsten Apertures

Applications

Tungsten Apertures are used in high energy and power applications and are intended to be used in the optical transfer assembly of a system using a powerful laser as a source. A practical example is the aperture within a spatial filter assembly. For Q-Switching applications and advanced photon sources, consider a highly reflective aperture disc surface and a very high melting temperature disc material. We will custom fabricate aperture mounts to comply with the parameters of your assembly environment.



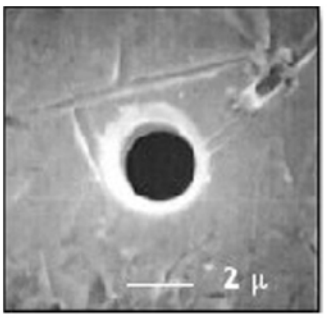
Tungsten Aperture

Specifications

Diameter	Ø9.5mm +.025/-.050mm
Thickness	0.025-0.050mm
Centering	◎±0.125mm
Circularity	○ > 1.5μ
Material	Tungsten

Part #	Aperture	
	Dia. (μ)	Tol. +/- %
HP-3/8-DISC-TUN-5	5	20
HP-3/8-DISC-TUN-10	10	10
HP-3/8-DISC-TUN-15	15	10
HP-3/8-DISC-TUN-25	25	10
HP-3/8-DISC-TUN-50	50	10
HP-3/8-DISC-TUN-100	100	5
HP-3/8-DISC-TUN-250	250	5

*These apertures are unmounted
*For optional aperture mounting parts add part # MT-25 or MT-16



SEM Aperture Shot