

[See all 98 Products in Family](#)

50µm Aperture Diameter, 1" OD Mounted, Gold-Plated Copper Aperture



Stock #90-373 **NEW** 2 In Stock

⊖ 1 ⊕ A\$211²⁰

ADD TO CART

Volume Pricing	
Qty 1-5	A\$211.20 each
Qty 6+	A\$188.00 each
Need More?	Request Quote

Product Downloads

General

Mounted **Type:**

Physical & Mechanical Properties

25.4 +0.000/-0.05 **Outer Diameter (mm):**

Gold-Plated Copper **Construction:**

50	Fixed Aperture Diameter (µm):
0.07 Nominal	Thickness (mm):
±10	Aperture Tolerance (%):
±125	Aperture Centration (µm):

Threading & Mounting

2.54	Mount Thickness (mm):
------	------------------------------

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:

Compliant	Reach 247:
---------------------------	-------------------

Product Details

- Ceramic, Copper, Gold-Plated Copper, Molybdenum, or Tungsten Substrates
- Withstand High Power Densities up to 130MW/cm² (For Mo and W Substrates)
- Ideal for Spatial Filtering and Laser Aperturing

High Power Apertures are available in an assortment of available substrates, making them a versatile option for a variety of laser applications. These products are ideal for spatial filtering and as a general aperture. The apertures have an outer diameter of 3/8" (9.5mm). High Power Apertures have one shiny side for high reflectivity while the other is blackened for absorption. The ceramic apertures are white on both sides. The aperture's thickness and the materials' high reflectivity enable them to withstand and quickly dissipate increased irradiation from high-energy lasers. Densities as high as 100MW/cm² (130MW/cm² for molybdenum and Tungsten substrates) have been used without damage to the apertures.