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## 1064nm, 90R/10T, 19.05mm Dia., Nd:YAG Laser Output Coupler



Nd:YAG Laser Replacement Parts

Stock **#17-622** **20+ In Stock**

⊖ 1 ⊕ **S\$236<sup>00</sup>**

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### Volume Pricing

Qty 1-9	<b>S\$236.60</b> each
Qty 10+	<b>S\$212.80</b> each
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### Product Downloads

### General

Laser Output Coupler **Type:**

Arrow on edge points towards S1 **Note:**

### Physical & Mechanical Properties

9.53 ±0.25 **Thickness (mm):**

**Diameter (mm):**

19.05 +0.00/-0.13

90 **Clear Aperture (%):**

<5 **Parallelism (arcmin):**

## Optical Properties

**Substrate:**   
[Fused Silica](#) (Corning 7980)

20-10 **Surface Quality:**

0 **Angle of Incidence (°):**

**Coating:**  
S1: Partially Reflective Laser Mirror (1064nm)  
S2: Laser V-Coat (1064nm)

1064 **Design Wavelength DWL (nm):**

M10 **Surface Flatness (P-V):**

90/10 **Reflection/Transmission Ratio (R/T):**

**Coating Specification:**  
S1:  $R_{abs} = 90 \pm 1.5\% @ 1064nm$   
S2:  $R_{abs} < 0.25\% @ 1064nm$

Dielectric **Coating Type:**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

### Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

- Output Couplers, Laser Line Mirrors, and Nd:YAG Rods
- 80% or 90% Reflectivity @ 1064nm Output Couplers
- 0.6% Nd Dopant Nd:YAG Rods
- Large Selection of Complementary [Nd:YAG Laser Optics](#) Available

Nd:YAG Laser Replacement Parts consist of output couplers, laser line mirrors, and Nd:YAG rods that can be dropped into Nd:YAG lasers. Output couplers are available with a  $\frac{3}{4}$ " (19.05mm) diameter with either 80% or 90% reflectivity at 1064nm and pair excellently in a laser cavity with the 1064nm laser line mirror with >99.9% reflectivity. Nd:YAG rods with 0.6% Nd dopant are available with a 4mm diameter and a length of 79 or 101mm, common sizes for industrial, marking, and surgical lasers. Nd:YAG Laser Replacement Parts are ideal for Nd:YAG lasers requiring maintenance or repair and could be used with lasers from manufacturers such as Holobeam Laser, Carl Bassel Laser, Lee Laser, and Control Laser. Please contact us if your application requires custom Nd:YAG replacement parts or optics using our [laser crystal and glass capabilities](#) and [coating capabilities](#).