

TECHSPEC® 532nm, 80R/20T, 12.7mm Dia., Nd:YAG Laser Output Coupler



TECHSPEC® Nd:YAG Laser Output Couplers

Stock #14-742 **20+ In Stock**

⊖ 1 ⊕ A\$228⁰⁰

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Volume Pricing	
Qty 1-9	A\$228.80 each
Qty 10+	A\$203.20 each
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General

Laser Output Coupler **Type:**

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

Physical & Mechanical Properties

3 **Parallelism (arcmin):**

Clear Aperture (%):

12.70 +0.00/-0.10 **Diameter (mm):**

6.35 ±0.20 **Thickness (mm):**

Optical Properties

10-5 **Surface Quality:**

Coating Specification:
S1: $R_{avg} = 80 \pm 2\%$ @ 532nm @ 0° AOI
S2: $R_{avg} < 0.2\%$ @ 532nm @ 0° AOI

λ/8 **Surface Flatness (P-V):**

Dielectric **Coating Type:**

Coating:
S1: Partially Reflective Laser Mirror (532nm)
S2: Laser V-Coat (532nm)

80/20 **Reflection/Transmission Ratio (R/T):**

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

0 **Angle of Incidence (°):**

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

Regulatory Compliance

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

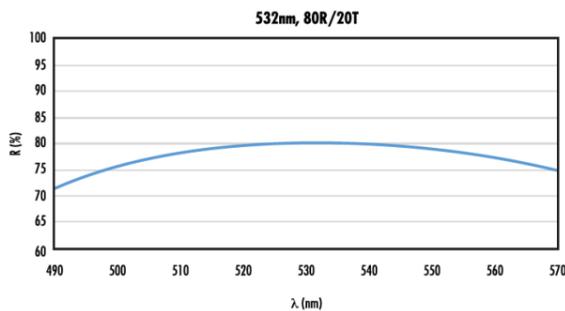
Product Details

- Designs for 532nm and 1064nm Nd:YAG Lasers
- 80% Reflectivity at Nd:YAG DWL
- UV Fused Silica Substrates

TECHSPEC® Nd:YAG Laser Output Couplers are partially reflective mirrors used in laser cavities to transmit a portion of the resonating intracavity beam. The first surface of these output couplers is coated with a partially reflective mirror coating while the back surface is coated with an anti-reflection coating at the laser wavelength to prevent reflection losses. In addition to being used as output couplers, these optics can also be used as partial reflectors for beam attenuation or as general beamsplitters. TECHSPEC Nd:YAG Laser Output Couplers are manufactured from UV fused silica substrates to provide excellent thermal properties and feature laser grade surface specifications. Laser Output Couplers are available with design wavelengths of 532nm or 1064nm for use with Nd:YAG lasers.

Please contact us if your application requires a Laser Output Coupler with a custom design wavelength, size, or reflectivity.

Technical Information



Custom

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](#).

Compatible Mounts