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# TECHSPEC® 25.4mm Dia., 1064nm T, 532nm R 0° Harmonic Separator

TECHSPEC Nd:YAG Harmonic Separators

Stock **#22-669** **20+ In Stock**

- 1 + **C$422.80**

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| Qty 1-5 | **C$422.80** each |
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## General

**Type:**
Harmonic Beamsplitter

## Physical & Mechanical Properties

**Clear Aperture (%):**
>85

**Construction:**
Dichroic

**Diameter (mm):**
25.40 +0.00/-0.10

**Parallelism (arcmin):**
<3

**Thickness (mm):**
6.35 ±0.20

## Optical Properties

**Angle of Incidence (°):**
0

**Coating Specification:**
Surface 1: $R_{abs}$: >99% @ 532nm, $T_{abs}$: >95% @ 1064nm
Surface 2: $R_{abs}$: <0.5% @ 1064nm

**Reflection Wavelength (nm):**
532

**Substrate:**
Fused Silica (Corning 7980)

**Surface Flatness (P-V):**
λ/10

**Surface Quality:**
10-5

**Transmission Wavelength (nm):**
1064

**Damage Threshold, Reference:**
Surface 1: 7.5 J/cm$^2$ @ 532nm, 20ns, 20Hz
7.5 J/cm$^2$ @ 1064nm, 20ns, 20Hz
Surface 2: 15 J/cm$^2$ @ 1064nm, 20ns, 20Hz

## Regulatory Compliance

**Certificate of Conformance:**
View

# Product Details

- Used to Separate Nd:YAG Harmonic Wavelengths
- Beamsplitter Coating Features >95% Transmission
- λ/10 Fused Silica Substrate

TECHSPEC® Nd:YAG Harmonic Separators are used to separate the common harmonic wavelengths of an Nd:YAG laser. A beamsplitter coating on the first surface reflects at least one wavelength and transmits another. The second surface of the beamsplitter features an anti-reflective coating to minimize the loss due to reflection. TECHSPEC Nd:YAG Harmonic Separators are available in 45° and 0° angle of incidence options. These harmonic separators are available in multiple wavelength configurations for optimal flexibility in system design.

**Note:** The Damage Threshold values we publish for this family of products were all tested independently from one another. When using these products with more than 1 incident beam, the resulting Damage Threshold of the system will be negatively impacted.

# Compatible Mounts

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