

TECHSPEC® 12.7mm Dia., 532 & 1064nm T, 355nm R 45° Thin Harmonic Separator



TECHSPEC Nd:YAG Harmonic Separators

Stock #29-044 **14 In Stock**

⊖ 1 ⊕ **\$316⁰⁰**

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Volume Pricing	
Qty 1-5	\$316.40 each
Qty 6-24	\$284.20 each
Qty 25-49	\$253.40 each
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General

Laser Window Substrate **Type:**

Physical & Mechanical Properties

90 **Clear Aperture (%):**

Dichroic **Construction:**

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

<3 **Parallelism (arcmin):**

3.18 ± 0.20 **Thickness (mm):**

Optical Properties

45 **Angle of Incidence (°):**

Coating Specification:
Surface 1: R_{abs}: >99% @ 355nm, T_{abs}: >95% @ 532, 1064nm
Surface 2: R_{abs}: <0.75% @ 532, 1064nm

355 **Reflection Wavelength (nm):**

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

λ/10 **Surface Flatness (P-V):**

10-5 **Surface Quality:**

532, 1064 **Transmission Wavelength (nm):**

Damage Threshold, By Design:
Surface 1:
2.5 J/cm² @ 355nm, 20ns, 20Hz
5 J/cm² @ 532nm, 20ns, 20Hz
7.5 J/cm² @ 1064nm, 20ns, 20Hz
Surface 2:
15 J/cm² @ 1064nm, 20ns, 20Hz
10 J/cm² @ 532nm, 20ns, 20Hz

Regulatory Compliance

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

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.