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TECHSPEC® 12.7mm Dia., 532 & 1064nm T, 266nm R 45° Thin Harmonic Separator

TECHSPEC Nd:YAG Harmonic Separators

Stock **#29-038** **3 In Stock**

- 1 + **C$411.60**

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Volume Pricing	
Qty 1-5	**C$411.60** each
Qty 6-24	**C$369.60** each
Qty 25-49	**C$329.00** each
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Product Downloads

General

Type:
Laser Window Substrate

Physical & Mechanical Properties

Clear Aperture (%):
90

Construction:
Dichroic

Diameter (mm):
12.70 +0.00/-0.10

Parallelism (arcmin):
<3

Thickness (mm):
3.18 ± 0.20

Optical Properties

Angle of Incidence (°):
45

Coating Specification:
Surface 1: R_{abs}: >95% @ 266nm, T_{abs}: >98% @ 532nm, T_{abs}: >98% @ 1064nm
Surface 2: R_{abs}: <1.0% @ 532nm, R_{abs} <1.0% @ 1064nm

Reflection Wavelength (nm):
266

Substrate:
Fused Silica (Corning 7980)

Surface Flatness (P-V):
λ/10

Surface Quality:
10-5

Transmission Wavelength (nm):
532, 1064

Damage Threshold, By Design:
Surface 1:
1 J/cm^2 @ 266nm, 20ns, 20Hz
5 J/cm^2 @ 532nm, 20ns, 20Hz
7.5 J/cm^2 @ 1064nm, 20ns, 20Hz
Surface 2:
10 J/cm^2 @ 20ns, 20Hz @ 532nm
15 J/cm^2 @ 20ns, 20Hz @ 1064nm

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.

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