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

TECHSPEC Nd:YAG Harmonic Separators

Stock **#29-042** **7 In Stock**

- 1 + C$316.40

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Volume Pricing	
Qty 1-5	**C$316.40** each
Qty 6-24	**C$284.20** each
Qty 25-49	**C$253.40** each
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SPECIFICATIONS

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}: >99% @ 355nm, T_{abs}: >95% @ 532nm
Surface 2: R_{abs}: <0.5% @ 532nm

Reflection Wavelength (nm):
355

Substrate:
Fused Silica (Corning 7980)

Surface Flatness (P-V):
λ/10

Surface Quality:
10-5

Transmission Wavelength (nm):
532

Damage Threshold, By Design:
Surface 1:
2.5 J/cm^2 @ 355nm, 20ns, 20Hz
5 J/cm^2 @ 532nm, 20ns, 20Hz
Surface 2:
10 J/cm^2 @ 532nm, 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.