

TECHSPEC<sup>®</sup> 12.7mm Dia., 532nm T, 1064nm R 0° Harmonic Separator



TECHSPEC Nd:YAG Harmonic Separators

Stock **#22-674** **14 In Stock**

-

1

+

C\$316<sup>40</sup>

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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                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                     |
|----------------------------------|---------------------|
| Harmonic Beamsplitter            | Type:               |
| Physical & Mechanical Properties |                     |
| >85                              | Clear Aperture (%): |
| Dichroic                         | Construction:       |

|                                                                                                                                                                                                                    |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 12.70 +0.00/-0.10                                                                                                                                                                                                  | Diameter (mm):                      |
| <3                                                                                                                                                                                                                 | Parallelism (arcmin):               |
| 6.35 ±0.20                                                                                                                                                                                                         | Thickness (mm):                     |
| Optical Properties                                                                                                                                                                                                 |                                     |
| 0                                                                                                                                                                                                                  | Angle of Incidence (°):             |
| Coating Specification:<br>Surface 1: R <sub>abs</sub> : >99% @ 1064nm, T <sub>abs</sub> : >95% @ 532nm<br>Surface 2: R <sub>abs</sub> : <0.5% @ 532nm                                                              |                                     |
| 1064                                                                                                                                                                                                               | Reflection Wavelength (nm):         |
| Fused Silica (Corning 7980)                                                                                                                                                                                        | Substrate: <input type="checkbox"/> |
| λ/10                                                                                                                                                                                                               | Surface Flatness (P-V):             |
| 10-5                                                                                                                                                                                                               | Surface Quality:                    |
| 532                                                                                                                                                                                                                | Transmission Wavelength (nm):       |
| Damage Threshold, By Design: <input type="checkbox"/><br>Surface 1: 7.5 J/cm <sup>2</sup> @ 1064nm, 20ns, 20Hz<br>7.5 J/cm <sup>2</sup> @ 532nm, 20ns, 20Hz<br>Surface 2: 10 J/cm <sup>2</sup> @ 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.

## Compatible Mounts