

TECHSPEC<sup>®</sup> 25.4mm Dia., 532 & 1064nm T, 266nm R 45° Harmonic Separator



TECHSPEC Nd:YAG Harmonic Separators

Stock **#11-546** [CONTACT US](#)

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+

S\$533<sup>40</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | <b>S\$533.40</b> each         |
| Qty 6-24       | <b>S\$480.20</b> each         |
| Qty 25-49      | <b>S\$427.00</b> each         |
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Product Downloads

| General                          |                     |
|----------------------------------|---------------------|
| Harmonic Beamsplitter            | Type:               |
| Physical & Mechanical Properties |                     |
| >90                              | Clear Aperture (%): |
| Dichroic                         | Construction:       |

|                                                                                                                                                                                                                                                      |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 25.40 +0.00/-0.10                                                                                                                                                                                                                                    | Diameter (mm):                      |
| <3                                                                                                                                                                                                                                                   | Parallelism (arcmin):               |
| 6.35 ±0.20                                                                                                                                                                                                                                           | Thickness (mm):                     |
| Optical Properties                                                                                                                                                                                                                                   |                                     |
| 45                                                                                                                                                                                                                                                   | Angle of Incidence (°):             |
| Coating Specification:<br>Surface 1: R <sub>abs</sub> : >95% @ 266nm, T <sub>abs</sub> : >98% @ 532nm, T <sub>abs</sub> : >98% @ 1064nm<br>Surface 2: R <sub>abs</sub> : <1.0% @ 532nm, R <sub>abs</sub> : <1.0% @ 1064nm                            |                                     |
| 266                                                                                                                                                                                                                                                  | Reflection Wavelength (nm):         |
| Fused Silica (Corning 7980)                                                                                                                                                                                                                          | Substrate: <input type="checkbox"/> |
| λ/10                                                                                                                                                                                                                                                 | Surface Flatness (P-V):             |
| 10-5                                                                                                                                                                                                                                                 | Surface Quality:                    |
| 532, 1064                                                                                                                                                                                                                                            | Transmission Wavelength (nm):       |
| Damage Threshold, By Design: <input type="checkbox"/><br>Surface 1:<br>1 J/cm² @ 266nm, 20ns, 20Hz<br>5 J/cm² @ 532nm, 20ns, 20Hz<br>7.5 J/cm² @ 1064nm, 20ns, 20Hz<br>Surface 2:<br>10 J/cm² @ 20ns, 20Hz @ 532nm<br>15 J/cm² @ 20ns, 20Hz @ 1064nm |                                     |
| 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