How to read the specifications of a beam splitter

Overview

This is vital in diverse fields from scientific research to consumer electronics. They operate with coherent or incoherent light, splitting by intensity, wavelength, or polarization. Light from an input fiber is first collimated, then sent through a beam splitting optic to divide it into two. The resultant output beams are then focused back into the output fibers. Newport offers a wide variety of Beamsplitters in various shapes. Circular beamsplitters, plate beamsplitters and cube beamsplitters can be purchased for polarizing or non polarizing beamsplitting. The SPIE Digital Library offers a wide range of resources on beam splitters, focusing on their design, applications, and performance across various optical systems. The library includes research papers, conference proceedings, technical articles, and book chapters that cover both theoretical and. Cube beamsplitters avoid beam displacement by working at 0° angle of incidence and placing the coated surface between two right angle prisms, but power handling can be limited if epoxy is used to bond the prisms.

Article Content

Feb 11, 2026

beamsplitters selection guide

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Optical Beamsplitters | Beamsplitter Selection | Edmund Optics

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Beam splitters

Papers delve into the materials used in beam splitter fabrication, including optical coatings and substrates, and how these materials impact efficiency, wavelength performance, and durability.

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How to Select a Beamsplitter

Learn how to select a beamsplitter for your optical needs. Explore types, applications, and considerations and get expert insights now!

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These beamsplitters can separate components of a laser beam based on wavelength, or to truly combine different wavelengths (or bands) with minimal loss, and are thus suitable for high power ...

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Beam splitters are used for separation of one wavelength into two beams with different or same energy. This can be done by beam splitter cubes or for highest power densities with dielectric coted beam ...

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Beam Splitter Selection Guide

Our beam splitters are made from high grade glass material with laser grade surface flatness & surface quality for tighter tolerance on the splitting ratio.

Contact Us

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