

Unidirectional grating beam splitter

Edmund Optics" transmission grating beamsplitters consist of an index-matched epoxy replica on a polished glass substrate for a high total efficiency. Transmission Grating Beamsplitters are available ...

In parallel, researchers have demonstrated high-performance multi-port devices, such as a nine-port beam splitter that utilises a dielectric lamellar sandwiched fused-silica grating, yielding...

We describe a novel reflection three-port beam splitter by a microstructure grating, which can show high efficiency for both TE and TM polarization in the 0th and the 1st orders.

A bifunctional dielectric grating was numerically studied, for the first time, to simultaneously enable asymmetric optical transmission and polarization beam splitting under normal incidence.

A one-dimensional diffraction beamsplitter grating is an optical element that utilizes periodic microstructures to diffract incident light, splitting a single incoming beam into two or more discrete ...

Diffractive gratings on thin membranes or silicon wafers with outstanding precision fabrication. Application across the low or high X-ray energy spectrum. We specialize in custom gratings as well ...

Beam splitters are essential in optical communication but are typically limited to invariable functions. This paper proposes a unified dual-layer meta-grating structure, aiming to realize variable ...

In this paper, we have fabricated a novel, ultra-compact grating-based beam splitter with low scattering loss and splitting ratio close to and greater than 50%.

Large-area, oblique-incidence interferometric nanopatterning using a low-cost multilongitudinal-mode diode laser as the source and a spin-on-glass based diffraction-phase-mask grating beam splitter is ...

In this paper, a novel dual-functional grating beam splitter is presented, designed to exhibit unique diffraction characteristics for transverse electric (TE) and transverse magnetic (TM) ...



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