Low-loss beam splitter

Design and simulation process for a multimode interference (MMI) device based on a silicon nitride platform presented. The objective is to achieve a low-loss MMI model as a beam ...

Both 1XN and 2XN splitters can be constructed in this fashion with as many as eight or more outputs, with both low return losses and low insertion losses. This design is extremely flexible, allowing one to ...

The authors demonstrate a high efficiency and high fidelity frequency beam splitter using coherent-state single photons and show how it can be used for operations or devices in long ...

Description tion beam combining and optical isolation in one integrated component. The most common application is to combine two pump lasers int one single fiber to double the pump power in EDFA or ...

A polarization beam splitter (PBS) with a high extinction ratio that is based on multimode interference (MMI) is proposed and experimentally demonstrated on a silicon-on-insulator platform.

Our devices, consisting of two coupled ring-resonators, provide frequency shifts as high as 28 gigahertz with an on-chip conversion efficiency of approximately 90 per cent. Importantly, the ...

We propose a compact, high extinction ratio, and low-loss polarization beam splitter (PBS) on a lithium-niobate-on-insulator (LNOI) platform, based on an asymmetrical directional ...

PPD also offers custom services such as dielectric beam splitter coatings and low-loss anti-reflection (AR) coatings on customer-supplied substrates, including flats, curves, and prisms.

We present a novel compact asymmetric bent directional coupler polarization beam splitter (PBS) fabricated on a silicon-on-insulator (SOI) platform using third-order polynomial interconnected circular ...

Integrated photonic devices based on thin film lithium niobate (TFLN) have attracted great attention due to their excellent performance. In this work, a flat type TFLN 1×N beam splitter is ...

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The authors demonstrate a high efficiency and high fidelity frequency beam splitter using coherent-state single photons and show how it can be used ...

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lithium-niobate-on-insulator (LNOI) platform, based on ...

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