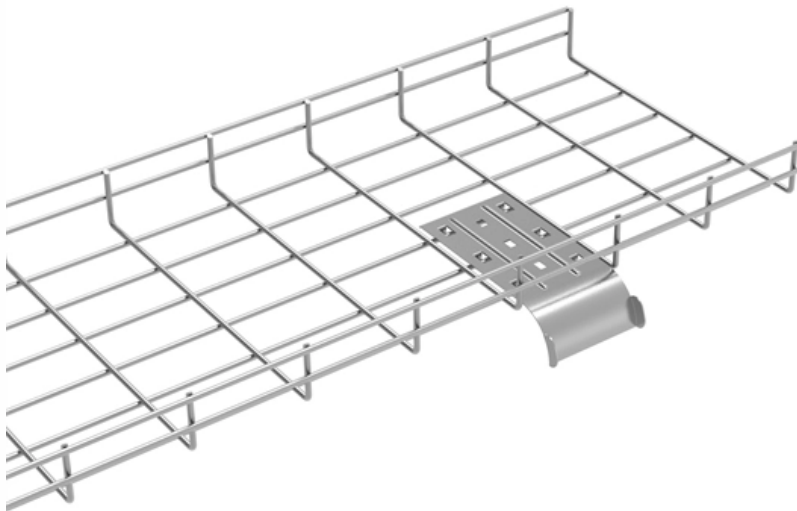


Waveguide Optical Splitter





Overview

In this paper, low-loss Y-branch splitters up to 128 splitting ratio are designed, simulated, and optimized by using 2D beam propagation method in OptiBPM tool by Optiwave.



Waveguide Optical Splitter



Design and analysis of 2D one-way splitter waveguide based on

Theoretical analysis In this paper, we propose a one-way T-shaped splitter waveguide with a tunable resonator at the cross, using the magneto-optical properties of the rods and the tailored

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Design and optimization of optical power splitters for optical access

One of the most used approaches to split an optical signal is to create it as a cascade of one by two waveguide branches also known as Y-branch optical splitter (Lifante 2003).

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Design and optimization of $1 \times 2N$ Y-branch optical

This paper presents the design and optimization of $1 \times 2N$ Y-branch optical splitters for telecom applications.

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Multimode Interference based Y-Branch Polymer Optical Waveguide

We demonstrate multimode interference (MMI)-based Y-branch single-mode step-index (SI) core polymer optical waveguide splitter for the development of optical ci



DATA ADJUSTABLE, EASY TO USE



SET INCREASE DECREASE POWER SWITCH

Design and analysis of 2D one-way splitter waveguide based on

We present a new high-efficiency splitter waveguide design based on photonic topological insulators. The system's robust edge states allow electromagnetic waves to propagate in the 2D

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Waveguide shape and waveguide core size optimization of Y-branch

For an optical waveguide, a silica-on-silicon material platform is used. The splitters were designed as a planar structure for a telecommunication operating wavelength of 1.55 μm . According

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Ultrahigh extinction ratio of polarization beam splitter based on

This polarization beam splitter has not only high transmission efficiency, but also ultrahigh extinction ratio. These features have important application prospects in integrated optical circuit,

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Waveguide holography for 3D augmented reality glasses

TIR propagation allows the optical path to be secured in the waveguide without being obstructed, while no bulky projector or imaging optics are needed to be placed in front of user's eye.

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Optical Splitting with Tapering Techniques in S Bend Waveguides

This work investigates the influence of tapering on Poynting vector distribution and splitting loss in S-bends fabricated from nonlinear Kerr materials. The primary objective is to understand how taper

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Optical waveguide beam splitters based on hybrid metal-dielectric

The beam splitting mechanism reveals that this hybrid metal-dielectric-semiconductor nanostructure can be applied as optical waveguide beam splitter.

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Planar Waveguide Optical Splitter (1×32)

FIBERONE®'s 1×32 Optical Planar Waveguide Splitter is ideal for either PON applications or other high-density, low-profile package network requirements.

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Broadband integrated optic polarization splitters by

Polymer optical waveguide polarization splitter has been demonstrated using a variety of birefringent materials such as poled polymers 22, 23, perfluorinated birefringent polymers 24, 25 and

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Design and analysis of 2D one-way splitter waveguide based on

We present a new high-efficiency splitter waveguide design based on photonic topological insulators. The system's robust edge states allow electromagnetic waves to propagate in the 2D

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Planar Waveguide Optical Splitter (1×8)

FIBERONE®'s 1×8 Planar Optical Waveguide Splitter is ideal for either PON applications or other high-density, low-profile package network requirements.

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2026 Schedule , OFC

All Tracks D1: Advanced Prototyping, Packaging and Integration D2: Photonic Integrated Circuits, Micro-optics, Nanophotonics, and Switching Devices D3: Active Optoelectronic Components D4: Fibers,

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Design and Analysis of a Low-Loss 1 × 2 POF Splitter Based on

To address the demand for low-cost, low-loss, and environmentally friendly optical power dividers in short-range visible light communication (VLC) systems, a low-loss 1 × 2 Y-branch optical

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Planar Waveguide Optical Splitter (1×4)

This fiber optic splitter utilizes advanced planar technology featuring silica waveguides to provide a robust solution for splitting optical signals. It is specifically engineered to provide optical

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Optical waveguide power splitter with adjustable splitting ratio using

Versatile optical devices with smaller space footprint are crucial for integrated optics. In this work, we design a dual-waveguide power splitter with adjustable splitting ratio depending on the

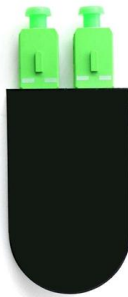
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Waveguides - optical fiber, fabrication, modes, nano

Waveguides are spatially inhomogeneous transparent structures for guiding light, often used for obtaining strong light concentration over substantial distances.

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Multimode Interference based Y-Branch Polymer Optical Waveguide

We demonstrate multimode interference (MMI)-based Y-branch single-mode step-index (SI) core polymer optical waveguide splitter for the development of optical circuitry. This polymer waveguide

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Design and optimization of optical power splitters for optical access

This paper aims to study the design, simulation, and optimization of low-loss Y-branch passive optical splitters up to 64 output ports for telecommunication applications. For a waveguide



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Design and analysis of 2D one-way splitter waveguide based on

We present a new high-efficiency splitter waveguide design based on photonic topological insulators. The system's robust edge states allow electromagnetic waves to propagate in the 2D

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Taiwan Planar Waveguide Circuit Splitter Market Analysis on

The Taiwan Planar Waveguide Circuit Splitter industry is experiencing notable growth, driven by increasing demand for optical communication technology.

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Waveguide Shape Modelling and Optimization for High Channel Y

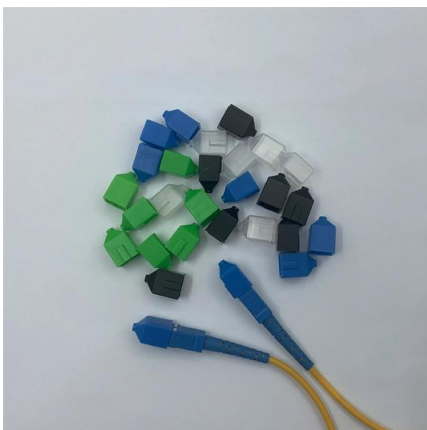
The goal of this paper is to model and to optimize a new Y-branch waveguide shape. For this purpose, we used a new Y-branch shape for 1×32 Y-branch splitter possessing better splitting properties, i.e.

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Waveguide shape and waveguide core size optimization

Design of 1 × 128 Y-branch optical splitter with Arc S-Bend waveguides shape. shows the geometry of the pre-defined S-Bend Arc shape waveguide used in the

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Waveguide shape and waveguide core size optimization

In this paper, low-loss Y-branch splitters up to 128 splitting ratio are designed, simulated, and optimized by using 2D beam propagation method in

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Design of New Y Splitter based on Photonic Crystal for Optical

In this article, the development of a new structure of an optical Y-splitter based on photonic crystals (PhC) waveguide have been carried out. The performances of this new Y-splitter

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