

Upgraded version of optical directional coupler cost-effective





Overview

The design and fabrication of a compact, low-loss, broadband directional coupler (DC) based duplexer operating in the near-infrared (NIR) region are demonstrated.



Upgraded version of optical directional coupler cost-effective



Design of All-Optical Directional Coupler Using Plasmonic

The proposed 10-dB directional coupler and 3-dB directional coupler feature good energy confinement, ultra-compact, and low propagation loss, which has potential applications in photonic integrated

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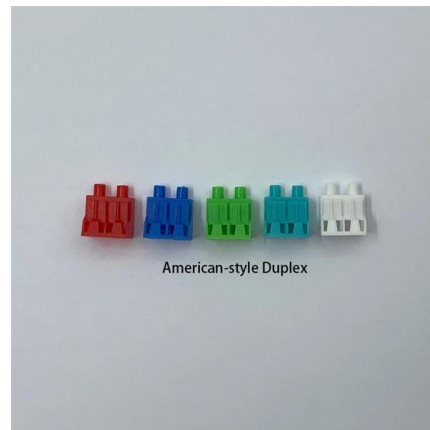
Optical Directional Couplers and their Applications

Optical directional couplers (ODCs) consist of two or more closely-located optical waveguides, whose modes can couple evanescently and thereby exchange their powers, realizing,

directional coupler

phase distribution. In general, the nonlinear directional coupler consists of two or more parallel optical waveguides fabricated from nonlinear material. Both waveguides are placed close enough to permit

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Accurate Modeling of Directional Couplers with Oxide Cladding:

We conduct a systematic study involving experimental optical measurements, numerical simulations, and direct electron microscopy imaging to investigate this discrepancy in directional

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On-chip optical mode exchange using tapered directional coupler

We present an on-chip optical mode exchange between two multiplexed modes by using tapered directional couplers on silicon-on-insulator platform. The device consisting of mode

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Nanoscale Optical Directional Coupler

Abstract Ultracompact optical directional coupler is one of the key elements for nanoscale optical networks and highly integrated optical circuits. Although the transverse size has been reduced down

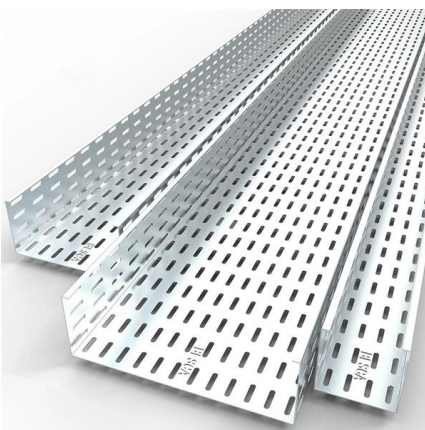
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Robust Characterization of Integrated Photonics Directional Couplers

To address these challenges, we propose a novel direct measurement technique that offers greater robustness to variations in optical interfaces, while bypassing extinction ratio

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Particle Swarm Optimized Optical Directional Couplers with Ultrasmall

However, the size of couplers designed by traditional ways could not meet the requirements of on-chip integrated optical systems. In this paper, two cross directional optical

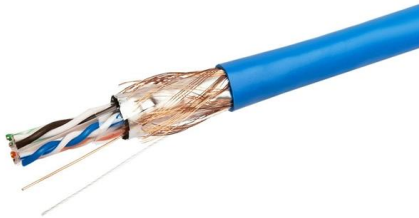
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Fabrication Tolerant Directional Coupler

We present the design of a fabrication-tolerant directional coupler in a passive photonic integrated chip fabricated on Imec's iSiPP50G silicon photonics platform.

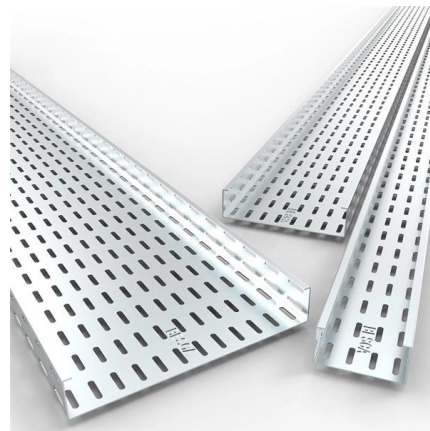
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Analysis of Optical Waveguide Directional Coupler by the

J. Opt. Commun. 28 (2007), 132-135 Hou Rui, Yang Chunyong* Summary This paper put forward a new method to analysis optical waveguide directional couplers, which dependent on modified effective

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Rational design of an integrated directional coupler for

We show analytically that two coupled planar waveguides exhibit a maximum in the coupling strength, which ensures both wideband transmission and minimal device

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A fixed phase tunable directional coupler based on coupling tuning

In this study, we introduce a design of a TDC based on coupling constant tuning in the thin film Lithium Niobate platform and present an optimized design. Our optimized TDC design

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On-chip optical mode exchange using tapered

Abstract and Figures We present an on-chip optical mode exchange between two multiplexed modes by using tapered directional couplers on silicon

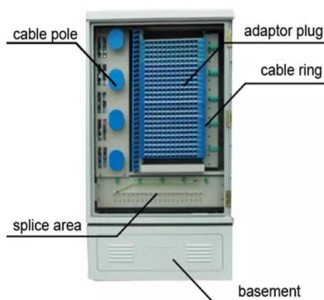
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Design of All-Optical Directional Coupler Using

Our monolithic LN plasmonic platform enables a wide range of cost-effective optical communication applications that demand um-scale footprints,

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The Optical Directional Coupler , Springer Nature Link

One such very important device is the optical directional coupler. The directional coupler forms one of the building blocks of integrated quantum photonic devices and in optical telecommunication and

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Chapter 11

The optical directional coupler, analogous to the microwave element of the same name, consists of parallel channel optical waveguides sufficiently closely spaced that energy is transferred from one to

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Optical Directional Couplers and their Applications

Qualitative Description of the Operation of Directional Couplers Marcatili's Improved Coupled-Mode Equations Directional Couplers with Uniform Cross Section and Constant Spacing

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The Optical Directional Coupler , Springer Nature Link

This chapter presents a detailed discussion of optical directional couplers, which is one of the important components of integrated quantum photonic circuits. Coupled mode theory is used to analyze two

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Designing Smarter Directional Couplers with Parametric

In this tutorial, we'll uncover the benefits of creating a parametric model for directional couplers, leveraging the advanced layout and model-building

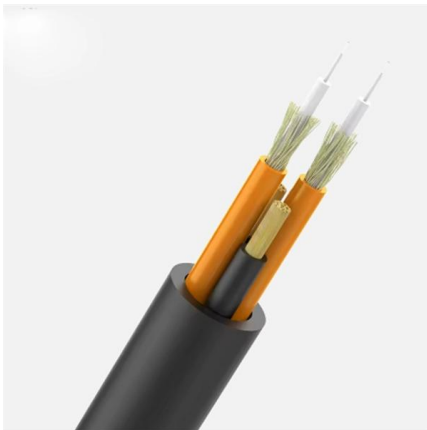
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Design of All-Optical Directional Coupler Using Plasmonic

In this paper, we have proposed, analyzed, and verified the performance of an optimized plasmonic 10-dB directional coupler and a 3-dB directional coupler in 2-D plasmonic waveguides

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Multi-Octave All-Dielectric Directional Coupler Using

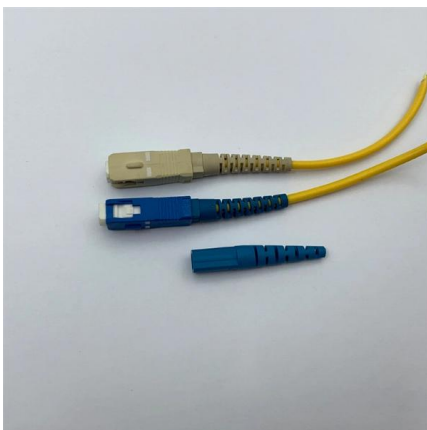
The realization of this directional coupler necessitated the development of an integrated quasi-optical substrateless silicon platform that is

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Plasmonic monolithic lithium niobate directional coupler switches

Our monolithic LN plasmonic platform enables a wide range of cost-effective optical communication applications that demand um-scale footprints, ultrafast operation and high

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Nanoscale Optical Directional Coupler , Plasmonics

Ultracompact optical directional coupler is one of the key elements for nanoscale optical networks and highly integrated optical circuits. Although the transverse size has been reduced down

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Coupling Characteristic of Silicon-Based Optical Directional Coupler

Silicon-on-insulator can be used as a platform for integration of such optoelectronic devices as it is of low cost and compatible with mature CMOS technology [6, 7]. In this paper, we

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Switching behavior engineerable, electro-optic directional couplers in

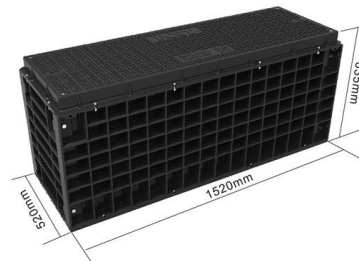
The technology developed in this work should enable the production of coupler devices whose switching characteristics can be tailored and realized with much more relaxed fabrication and

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Directional Coupler

A directional coupler is defined as a device that couples only to waves traveling in a specific direction, allowing for the measurement of forward and reverse power levels in transmission

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Implementation of all-optical 3-dB and 10-dB directional coupler for

The design of an all-optical 3-dB and 10-dB directional coupler that functions as an optical switch if applied a control signal by fusing two photonic crystal waveguides with a coupling

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Design of directional couplers in integrated photonic

To reduce the wavelength dependence for integrated optical couplers, many novel coupler designs have been proposed, as shown in Figs. 18 (b)-18 (j).

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