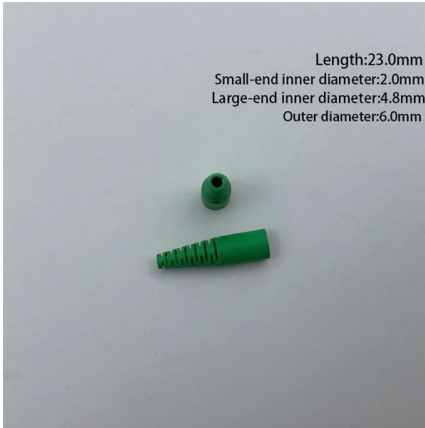


Comparison of Low Noise and Cost-Effectiveness of Optical Directional Couplers





Comparison of Low Noise and Cost-Effectiveness of Optical Directional



Low-Loss Silicon Directional Coupler with Arbitrary Coupling Ratios for

Abstract We demonstrate a design for a high-performance 2×2 splitter meeting the essential requirements of broadband coupling, support for arbitrary coupling ratio, ultra low-loss, high

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Directional Coupler

5.11.2.2 Nonplasmonic Optical Biosensors
Photonic waveguide biosensor is an emerging optical technology that has recently been under intensive investigation. It includes planar optical waveguide

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Robust Characterization of Integrated Photonics Directional Couplers

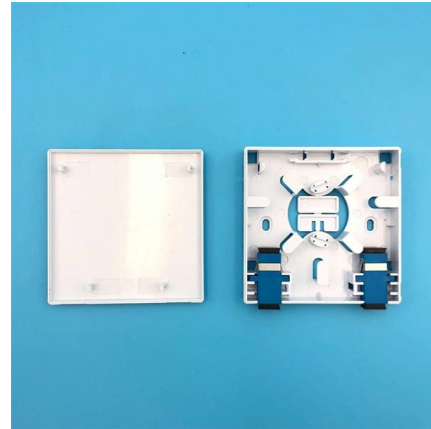
Directional couplers are essential components in integrated photonics. Given their widespread use, accurate characterization of directional couplers is crucial for ensuring optimal

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Increasing the Effectiveness of Hearing Aid Directional Microphones

Directional processing can even contribute to the decision-making of such a steering algorithm. For example, the dual microphones on a hearing aid may be used to "measure" the level of noise to the



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

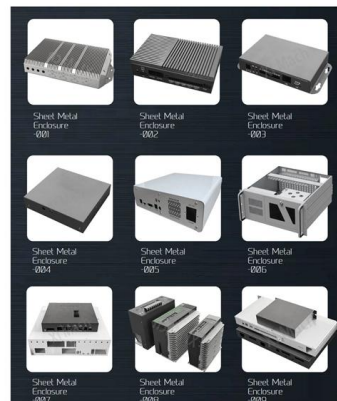
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Hearing Aid Directional Microphone Systems for Hearing

This book chapter describes the hearing-in-noise problem, natural directivity and hearing in noise, directional microphone systems, how

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Highly efficient and selective integrated directional couplers for

This paper focuses on the design, optimization, and characterizations of a low-loss, compact directional coupler-based duplexer.

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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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Design and simulation of ultra-low loss triple tapered asymmetric

Optical coherence tomography (OCT) is a promising imaging modality for clinical. Its certain limitations such as size and complexity are rather challenging wherein exploiting integrated

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Grating Couplers on Silicon Photonics: Design

Silicon photonics is an enabling technology that provides integrated photonic devices and systems with low-cost mass manufacturing capability. It has

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Noise performance of optical receivers: comparison of directional

Noise properties of a directional-coupler-based optical receiver (DCOR) and the resistive-feedback optical receiver (RFOR) topologies are compared. For the DCOR we have both simulated

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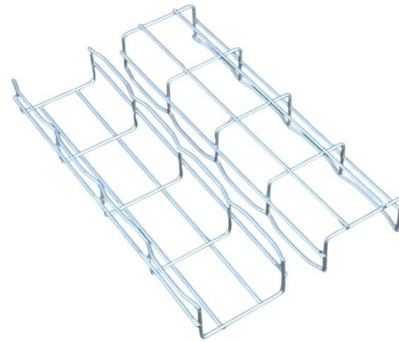




Lecture13_228B_W06_Final.ppt

Tunable FBGs for ROADM Multilayer Dielectric Thin-Film Filters (TFF) DTMFs can be designed to have flat passbands, low loss, low PDL and polarization sensitivity as well as sharp frequency rolloff.

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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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Efficiency Comparison of Directional Optical Couplers in Thin Glass

Abstract Two integrated directional couplers for simultaneous bidirectional data transmission are presented and compared with respect to coupling efficiency.

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Analysis of optical directional couplers in thin glass sheets for PCB

The couplers are manufactured in thin glass sheets by a field-assisted diffusion process, which enables the embedding in Electro-Optical Printed Circuit Boards (EOPCBs).

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CMOS integrated low TX noise digital transmitter with tunable

A fully CMOS integrated low TX noise UHF RFID digital transmitter with tunable directional coupler is proposed. The transmitter decreases the AM noise density to -144.6 dBc/Hz at

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Low-loss and broadband 1 × 8 thermo-optic selective

In this paper, we demonstrate a low-loss and broadband 1 × 8 thermo-optic selective switch utilizing bent directional couplers based on the 2 μm silica based PLC platform.

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Efficiency Comparison of Directional Optical Couplers in Thin Glass

Two integrated directional couplers for simultaneous bidirectional data transmission are presented and compared with respect to coupling efficiency. The coupler.

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Design and modeling of a fabrication tolerant and broadband

Based on the finite difference eigenmode and finite-difference time-domain simulation results, we analyze the effects of fabrication errors on the coupling of these directional couplers.

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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

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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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Broadband silicon photonic directional coupler using asymmetric

Abstract: We design and demonstrate broadband directional couplers that use asymmetric-waveguide based phase control sections, on the silicon-on-insulator platform.

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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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A Review of Optical Coupler Theory, Techniques, and Applications

The objective of this paper is to provide a review of the theory, techniques, and applications of optical couplers.

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Compact directional acoustic sensor using a multi-fiber optical probe

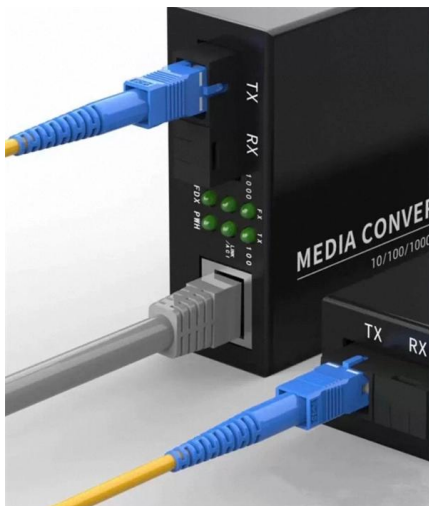
A compact directional acoustic sensor is described which uses a two-fiber optical probe, a light emitting diode (LED), a photo-diode detector, and a slender cylindrical cantilever to the end of

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Particle Swarm Optimization Design of Optical

PSO design of an optical directional coupler is an optimization problem consisting of input variables and design parameters within a fitness function (FF).

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All-optical switching using a new photonic crystal

In this paper all-optical switching in a new photonic crystal directional coupler is performed. The structure of the switch consists of a directional coupler

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Comparative study of cost-effective coherent and direct

As the capacity of the next-generation passive optical network (PON) is reaching 100 Gb/s and beyond, cost-effective transceivers have been widely discussed. In this work, we provide a comprehensive

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<https://frindel.es>