Bosnia and Herzegovina Optical Power Divider with Low Loss

We designed Si-based all-dielectric 1 × 2 TE and TM power splitters with various splitting ratios by combining the use of the inverse design of adjoint ...

Here, we experimentally demonstrate a high-performance optically transparent eight-channel Wilkinson power divider by heterogeneously integrated low-loss metal mesh and high-loss ...

The Wilkinson power divider solves the matching problem of the simple T-junction: it has low VSWR at all ports and high isolation between output ports. The input and output impedances at each port are ...

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

Tuning the power split ratio with a low power by using phase-change material Sb 2 Se 3. A large tunable range of the splitting ratio from 1 % to 97 % with low excess loss. Accuracy achieves as ...

Abstract Beam propagation method is used to simulate numerically a proposed 1x3 optical power divider. Simulation results show that the proposed structure can divide the optical power with a ...

In this article, we propose the design of two power splitters--3 dB and 6 dB Y-shaped configurations--that also function as power combiners using two-dimensional photonic crystal ...

This paper proposes an ultra-miniaturized and WIPD-based power divider with low loss and high selectivity. To reduce footprint and loss, the $90^ {circ}$ phase.

Abstract: We designed Si-based all-dielectric 1 × 2 TE and TM power splitters with various splitting ratios and simulated them using the inverse design of adjoint and numerical 3D finite-difference time ...

This paper proposes and demonstrates a new design for a 3-dB optical power splitter with curvature optimized adiabatic taper which can achieve ultra-broadband operation, low loss, compact, ...

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.

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