Customization Process for Low-Temperature Resistant Optical Power Dividers for Smart Buildings

ELECTRO-PHOTONICS LLC offers SMT and connectorized power dividers/combiners from DC to 40 GHz and up to 500W CW. We can custom design connectorized power dividers.

An optical power divider is disclosed for single mode optical fibers. The fibers to be coupled are inserted in converging bores in a lower refractive index glass block which is collapsed...

Combining OPS with chalcogenide phase-change materials (PCMs) allows us to tune the power split ratio with a low power owing to the nonvolatility and contrasting optical properties of the ...

Based on the three-branch structure, a compact, low-loss, and good uniformity 1 × 24 optical power splitter is designed and fabricated using silica-based PLC technology on quartz substrate.

In this work, we propose a novel scheme of on-chip photonic power splitters that can meet all the required characteristics of tailorability, wideband, compactness, and low insertion loss.

For custom optical components--isolators, circulators, couplers, and splitters--the difference between a prototype that shines and a product that scales is simple to state but hard to ...

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.

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 ...

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 ...

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