Custom Process for High-Temperature Resistant Quantum Communication Optical Splitter

To fulfill specific reconfigurable functions (1 1, 1 2, and 1 3 MMI split-× × × ters), the optimum geometry of the heaters, desired refractive index changes, and phase shifts of the MMI splitter are designed at ...

Here, we propose a tailorable and broadband optical power splitter over 100 nm with low insertion loss less than 0.3%, as well as a compact footprint, based on 1×2 interleaved tapered...

In this paper, we are going to report on the development and characterization of a large core optical splitter intended for operating temperatures up to 120 °C. Such an optical splitter will be ...

A temperature-controlled and multi-functional splitter is proposed through dual-core photonic crystal fiber.

In this thesis, design, simulation and methodology of N×N multiport beam splitter on a photonic integrated circuit is explained. Photonic integrated circuit has more advantages than other optical ...

In this paper, we report a full set of AlN directional couplers that cover all beam splitting ratio, which is a key component for quantum photonic devices. We also fabricate polarization beam splitters by ...

Both 1XN and 2XN splitters can be constructed in this fashion with as many as eight or more outputs, with both low return losses and low insertion losses. This design is extremely flexible, allowing one to ...

Discovering a range of custom optical assemblies, including 2-dimensional fiber array, linear fiber array, PM fiber devices, high-temperature optical components, and optical switch for coherent optical ...

The authors demonstrate a high efficiency and high fidelity frequency beam splitter using coherent-state single photons and show how it can be used for operations or devices in long ...

For the polarization multiplexing requirements in all-optical networks, this work presents a compact all-fiber polarization beam splitter (PBS) based on dual-core photonic crystal fiber (PCF)...

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