

Optical Fiber Communication Waveguide Coupler

To address this trade-off, a reconfigurable fiber-to-waveguide coupling module is proposed and designed to allow for both grating-assisted and end-fire coupling in the same photonic ...

Two 3-axis piezoelectric-driven stages allowing automatic alignment 50nm resolution. The system also combines NanoTrak Auto-Alignment System to optimize the coupling efficiency from single mode ...

Automated equipment for measuring and connecting optical fibers to chips and panels is therefore essential. At Fraunhofer IZM we have an EFRE-funded facility with the following features:

Waveguide couplers are defined as devices that facilitate the transfer of electromagnetic energy between two waveguide sections through the use of coupling holes or slots in their common walls, ...

Efficient energy transfer is crucial in electromagnetic communication. Therefore, producing a waveguide coupler that achieves broadband, nonreflective transmission is a challenging task. With the ...

The coupler achieves a low coupling loss of 0.8 dB for the fundamental TE mode, along with 1 dB bandwidth exceeding 180 nm. The broadband operation enables diverse bandwidth-driven ...

It consists of three waveguide ports and one fiber port. The periodicity in the direction of Port 1 and Port 2 is different from Port 3 to allow coupling of downstream and upstream wavelengths,...

We present how a conventional Si waveguide grating coupler can be integrated with a polymerizable liquid crystal polarization grating to provide vertical coupling between optical fibers and ...

We compare the pros and cons of each light coupling method and provide an overview of the recent developments in waveguide coupling between optical fibers and integrated photonic circuits.

In this paper, we provide an overview and comparison of devices used for optical waveguide-to-waveguide coupling including inter-chip edge couplers, grating couplers, free form...

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