

Low Loss Planar Waveguide in North Macedonia



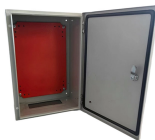
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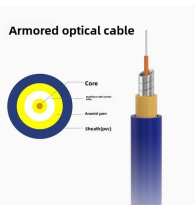
Buyer-relevant Considerations When selecting planar waveguides, the propagation loss is a paramount figure of merit, typically expressed in dB/cm. Losses arise from material absorption and, significantly, ...



Abstract: The fifteen papers in this special issue focus on ultra low loss planar waveguides and the applications.



Substrate integrated waveguide (SIW) technology has immense applications for the design of microwave components and devices. In this paper, a low loss substrate integrated ...



We survey the state of the art in fundamental building blocks, including strip, rib, and silicon nitride waveguides, with a focus on achieving ultra-low propagation loss.



Abstract: We report an approach to make ultra-low-loss waveguides using fixed-index-contrast stoichiometric Si₃N₄. A record low single-mode propagation loss of 0.70 ± 0.02 dB/m was achieved ...



This waveguides buying guide provides technical background, comparison of major types, selection criteria, and an overview of suppliers.



Theoretical performance of a 1.5- μm satellite-borne coherent Doppler wind lidar using a planar waveguide optical amplifier with a demonstrated figure ...



Theoretical performance of a 1.5- μm satellite-borne coherent Doppler wind lidar using a planar waveguide optical amplifier with a demonstrated figure of merit: simulation of signal detection ...



Abstract: We demonstrate a wafer-bonded silica-on-silicon planar waveguide platform with record low total propagation loss of (0.045 ± 0.04) dB/m near the free space wavelength of 1580 nm.



In this work, we report a significant advance in silicon nitride integrated photonics, achieving the lowest loss to date for an anneal-free silicon nitride waveguide.



This method is based on measuring the transmission of an optical cavity formed by two highly reflective (R at least 0.999) simple Bragg gratings and a uniform waveguide between the two gratings whose ...



The Er 3+ active planar waveguide, fabricated on ultrathin flexible glass substrate, by combining its mechanical flexibility, a low attenuation coefficient and the emission in the NIR region, ...



Here, we present the design and characterization of planar dispersion-engineered transmission lines that effectively suppress radiation leakage in desired mm-wave bands.



Two invited papers cover important history and developments of low loss silicon nitride waveguides, the Photonic Damascene process and the TriPleX process.

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