Thermo-optical attenuator

A novel silicon-on-insulator thermo-optic variable optical attenuator with isolated grooves based on a multimode interference coupler principle is fabricated by the inductive coupled plasma etching ...

Thermo-optic simulations have been performed to find the optimal heater electrode layout in order to improve the heating efficiency, suppress thermal crosstalk, and enhance the dynamic attenuation ...

We demonstrated a flexible thermo-optic variable attenuator based on LRSPP waveguide that can be used to transmit and equalize high frequency microwave signals in microwave photonic ...

A thermo-optic Mach-Zehnder (MZ) variable optical attenuator based on silicon waveguides with a large cross section was designed and fabricated on silicon-on-insulator (SOI) wafer.

In this paper, we designed a thermo-optic variable optical attenuator (VOA) based on quartz substrate, which consists of a Mach-Zehnder interferometer (MZI) and a thin film heater above the phase ...

In this article, an integrated variable optical attenuator based on SOI is designed and the basic principle is based on the thermal-optical effect, that is, the refractive index changes by local ...

Thermo-optic tuning is enabled by a silicon resistive micro-heater positioned beside the MZI arm. Experimental results reveal that the maximum attenuation is around 30 dB with 50 mW ...

In this paper, an all-polymer thermo-optic variable optical attenuator (VOA) based on Mach-Zehnder interferometer (MZI) waveguide structure was designed and fabricated on PMMA ...

Web: https://safireschools.co.za