

MIT Silicon-based Photonic Chip Thermo-optic Modulator



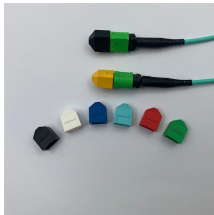
MIT Silicon-based Photonic Chip Thermo-optic Modulator



Herein, an overview of current silicon modulator types and modern integration approaches is presented including direct bonding methods and micro-transfer printing.



In this paper, we give an overview of the current status of the TOPS based on silicon photonics technologies.



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We propose and experimentally demonstrate an on-chip all-optical silicon photonic crystal nanobeam cavity (PCNBC) modulator.



We report a thermo-optic silicon modulator realized in a 0.0023-mm² silicon footprint of a commercial foundry silicon photonics process.



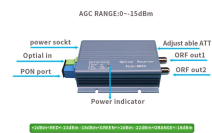
Building on the slow-light effect and theoretical analysis, we design and fabricate a PCNC-based EO modulator in a standard silicon photonic commercial CMOS-compatible foundry.



ices. Modulation is achieved by owing current perpendicular to a new ridge waveguide geometry. The resistance pro le is engineered using di erent dopant concentrations to obtain localized heat ...



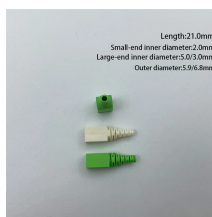
In this paper, we propose a Si/SiO₂ high-index contrast waveguide modulator based on a split ridge-waveguide that operates under forward biased conditions and shows corner frequencies of up to 24 ...



In this work, we develop and demonstrate a wafer-scale thermal undercut in a 300 mm complementary metal oxide semiconductor (CMOS) foundry that dramatically improves the thermal ...



Design and characterization of transmitter circuits architectures using silicon ring resonator modulators for high bit rate communications (Doctoral dissertation, Lyon).



Thermo-optic phase shifter (TOPS) based on doped silicon (Si) heaters is commonly used to compensate for device structure imbalance of high-speed Mach-Zehnder modulator (MZM) due to ...



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