Customization Process for Low-Noise Optical Circulators for Rail Transit

An optical circulator is defined as a nonreciprocal device that transmits light between ports in a predefined sequence, utilizing the Faraday effect to change the polarization of optical signals, ...

Noise minimization: bypass pins, RC post filter, layout priorities. Hybrid: buck pre regulator + LDO clean up for sensitive rails. Thermal & headroom checks for worst case conditions. Key terms: keep ...

Because of their high isolation of the input and reflected optical powers and their low insertion loss, optical circulators are widely used in advanced fiber-optic communications and fiber-optic sensor ...

In this work, we have presented the design of two four-port integrated optical circulators for TE and TM modes, which combine the advantages of new low-loss silicon nitride waveguides with the non ...

An 8-channel optical circulator array has been designed and fabricated using a high precision microlens array, which is aligned with a set of miniature optics including a bismuth ...

This Special Collection seeks to gather recent research findings in the realm of noise and vibration control, with a specific focus on rail transit.

We use this device architecture to demonstrate 4- and 6-port optical circulators with up to 14.4 dB of isolation and propose a framework to extend the design to an arbitrary number of ports.

By exploiting the interplay between non-Hermiticity and nonlinearity, here we demonstrate a new class of chip-scale information transport devices on spatially modified III-V quantum well systems.

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broadband oper-ations and electrical actuation. Here, we report the experimental demonstration of a novel type of all-fiber acousto-optic circulator, realized by cascading two so-called ...

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