Low-loss optical circulator for emergency communication

Here, we present a solution to this issue by realizing low-loss (0.81 dB), broadband (at least 50-GHz bandwidth), and high-extinction (up to 27 dB) circulators, based on Mach-Zehnder ...

This paper presents the fundamental principles of the optical circulator, and goes on to report on development of a marketable 3-port optical circulator that achieves low loss by optimizing losses ...

Employing Agiltron"s advanced micro-optics design, it features low insertion loss, low polarization sensitivity, high isolation, compact structure, and high stability.

These circulators are electrically actuated and feature low insertion loss (0.81 dB), high extinction ratio up to 27 dB, and a broad bandwidth of at least 50 GHz.

We demonstrate novel all-fiber and magnetic-field-free circulators based on Mach-Zehnder interferometers including so-called fiber null-couplers. Their low insertion loss makes them ideal tools ...

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 ...

A 6-port optical circulator using silicon photonic crystals has been designed and proposed in this paper as an essential component of an optical communication system.

Thorlabs" Single Mode (SM) Optic Circulators are non-reciprocating, one directional, three-port devices that are used in a wide range of optical setups and for numerous applications. Our SM optical ...

The proposed circulator"s low footprint, CMOS compatibility, and robust performance across the telecom C-band highlight its potential for on-chip optical signal routing, isolation, and protection in next ...

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