Low-loss Operation Guide for Smart City Optical Circulators

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 ...

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 ...

Miniature style circulators are needed to minimize space. Low return losses are necessary for correct operation. Miniature inline fiber optic circulator for 1550 nm with 55dB return loss, with 1 meter long, 1 ...

Carefully chosen combinations of available wavelengths make SmartClass(TM) Fiber OLTS-85/OLTS-85P light sources the optimum choice for link loss testing and ...

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 ...

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.

Optical circulators are used to route signals in optical sensors that measure stress, strain, temperature, and pressure. Because of the high isolation between input and reected power, as well as the low ...

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 optical circulator is a three-port device that allows light to travel in only one direction. A signal entering to Port 1 will exit Port 2 with minimal loss, while a signal entering Port 2 will exit Port 3 with ...

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