# Low-loss customization process for optical circulators

For custom optical components--isolators, circulators, couplers, and splitters--the difference between a prototype that shines and a product that scales is simple to state but hard to ...

OZ Optics" PM fiber optic circulators are manufactured with polarization maintaining fibers, making them ideal for polarization maintaining applications such as 40 Gbit systems or Raman pump applications. ...

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 ...

We propose and investigate a compact, low-loss and broadband circulator based on a star-type ferrite rod in two-dimensional square-lattice photonic crystals. Only one ferrite rod is ...

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 ...

In this work, we present the first demonstration of ultra-low losses of 2.0dB/m in silicon nitride waveguides and ring resonators with Q = 11.18 million, using a anneal-free process involving ICP ...

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 ...

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.

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