



Adam Tas Corridor Energy

Phase-shifting grating fiber





Overview

Phase-inserted fiber gratings (PI-FGs) refer to those gratings where there exist a number of the phase-shifts (spatial spacing) among different sections (or local periods) of the gratings themselves. All the PI-FGs developed to date can mainly be divided into three categories: phase-shifted. fiber Bragg gratings (FBGs), which make it possible to obtain spectral characteristics depending on the tasks assigned. In this paper, we present results of numerical analysis of phase-shifted fiber Bragg gratings aimed at slowing down the group velocity of light propagating through these structures. Using coupled-mode theory and transfer matrix method we model the impact of several parameters such as length of the. The grating is written in a standard fiber for communication and the switching is based on the cross-phase modulation induced by an intense pump pulse on a low intensity probe.



Phase-shifting grating fiber



Phase-shifted gratings fabricated with femtosecond laser by

A phase-shifted fiber Bragg grating (PS-FBG) fabricated by femtosecond laser phase mask technique is demonstrated. The PS-FBG fabricated by overlapped two types of fiber Bragg gratings

Design, Optimization, and Experimental Evaluation of

This paper describes design, theoretical analysis, and experimental evaluation of a p-Phase-Shifted Fiber Bragg Grating (p-PSFBG) inscribed in the



Phase-shifted fiber Bragg gratings fabrication method

fiber Bragg gratings (FBGs), which make it possible to obtain spectral characteristics depending on the tasks assigned. Currently, fiber Bragg gratings are used in fiber lasers, in fiber optic communica.



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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.



All-Optical Switching in Phase-Shifted Fiber Bragg Grating

The grating is written in a standard fiber for communication and the switching is based on the cross-phase modulation induced by an intense pump pulse on a low intensity probe.



Gap Phase-Shifted Fiber Bragg Grating and Its Application

A gap phase-shifted fiber Bragg grating (g-FBG) formed by cutting off a conventional FBG and re-coupling is proposed and demonstrated. Furthermore, a reflection g-FBG is put forward and



Interrogation techniques for p-phase-shifted fiber Bragg grating sensor

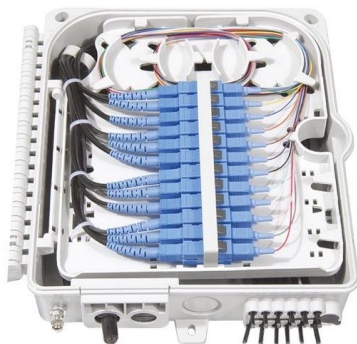
Abstract p-phase-shifted fiber Bragg gratings (pFBG) have been extensively explored by various research groups in the recent past as a high-resolution optical fiber sensor for both static and





(PDF) Phase-shifted fiber Bragg grating filters based

Such phase-shifted Bragg gratings can also be used to create an all-fiber demultiplexer for multichannel systems and fiber optic sensors as a



Utilizing phase-shifted long-period fiber grating to

Confronting this challenge, we propose a novel method based on phase-shifted long-period fiber grating (PS-LPFG) to suppress spectral broadening in a high-power

Fiber Bragg Gratings (FBG) of phase-shifted type

By introducing a p- phase shift into a refractive index modulation of the fiber Bragg grating during its fabrication, the spectral transmission has a



Phase-Inserted Fiber Gratings and Their Applications to

Phase-inserted fiber gratings (PI-FGs) refer to those gratings where there exist a number of the phase-shifts (spatial spacing) among different



Ultralong p-phase shift fiber Bragg grating empowered single

In this paper, a 5-cm-long strong p-phase shift Bragg grating structure is direct inscribed into the Er/Yb co-doped phosphate fiber using excimer laser, and a DFB fiber laser with 1534 nm



Phase-shifted fiber Bragg gratings fabrication method

With the development of fiber optics, Bragg grating production technologies were also improved, and special structures were developed that made it possible to obtain spectral characteristics different

A phase-shifted linearly chirped fiber Bragg grating with tunable

In recent years, phase-shifted fiber Bragg gratings (PS-FBGs) have drawn considerable research interests. By introducing a phase shift into the fiber grating during fabrication, the





Phase-shifted fiber Bragg grating filters based on

In this paper, we comprehensively analyze counter-propagating cladding mode assisted phase-shifted fiber Bragg gratings (FBGs) and propose

Transverse anti-symmetric phase-shifted fiber grating for reducing

In this work, a phase-shifted fiber grating with transverse anti-symmetric refractive-index distribution on the fiber is proposed and studied. The transverse anti-symmetric refractive index



Femtosecond inscription of phase-shifted fiber Bragg gratings using

Two slightly shifted wavelength Bragg gratings are inscribed one over the other in a single mode fiber, by moving the phase-mask (PM) between two positions. The inscription setup includes a



(PDF) Phase-shifted fiber Bragg gratings and their

Phase shifts open up narrowband transmission windows inside the stop band of the Bragg grating; transmitted wavelength can be changed by adjusting the amount



(PDF) Phase-shifted fiber Bragg grating filters based on

Such phase-shifted Bragg gratings can also be used to create an all-fiber demultiplexer for multichannel systems and fiber optic sensors as a



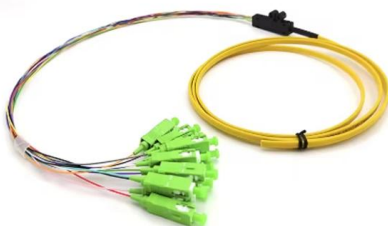
FIBER BRAGG p-PHASE-SHIFTED FBG GRATINGS (FBG)

ARTICLE GP-FBG-TPS-P80 Fiber Bragg Gratings have many applications in optical communication, laser technique and sensing systems. The FBGs are widely used like in-fiber mirrors or optical filters



Engineered --Phase-Shifted Fiber Bragg Gratings for Efficient

Abstract: Distributed feedback Raman fiber lasers with p -phase-shifted uniform gratings are modeled and simulated in the steady state, to optimize their performance. Using the parameters





Numerical Analysis of Parameter Optimization in Slow Light Phase

In this paper, we present results of numerical analysis of phase-shifted fiber Bragg gratings aimed at slowing down the group velocity of light propagating through these structures.



Moiré phase-shifted fiber Bragg gratings in polymer optical fibers

We demonstrate a simple way to fabricate phase-shifted fiber Bragg grating in polymer optical fibers as a narrowband transmission filter for a variety

(PDF) Phase-shifted fiber Bragg grating filters based on

As a special kind of Bragg grating, phase-shifted fiber Bragg grating (PS-FBG) has attracted extensive attention because of its extremely narrow

Length:33.5mm
Small-end inner diameter:4.0mm
Large-end inner diameter:6.0mm



Phase shifted and cascaded long-period fiber gratings

We have obtained useful analytical expressions for the spectra of phase shifted and cascaded long-period gratings and have demonstrated experimental results which are in good



Transverse anti-symmetric phase-shifted fiber grating for reducing

An unprecedented fiber narrow-band filter is proposed, which is composed of a phase-shifted fiber grating with an anti-symmetric refractive index distribution and a uniform fiber grating.



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