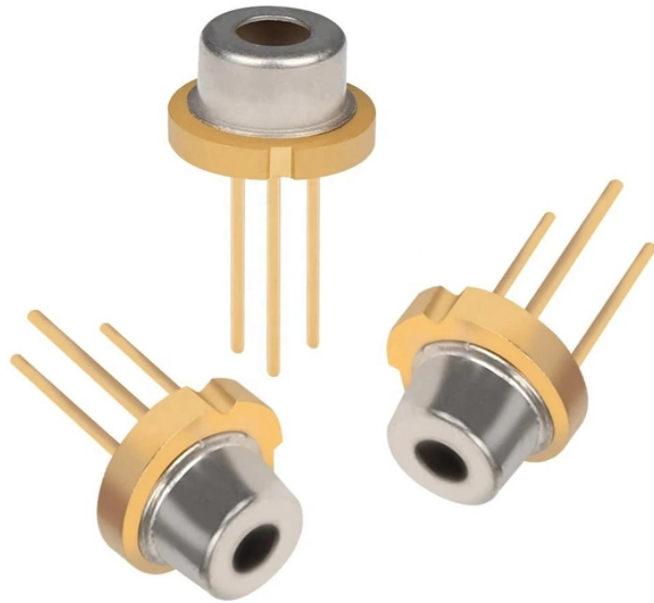


Anti-resonant fiber single-mode



Anti-resonant fiber single-mode



We propose a novel hollow-core anti-resonant fiber (HC-ARF) with double tangent circular arc tubes (CATs) for robust single-polarization single-mode (SPSM) operation.



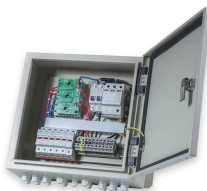
In this paper, a low loss and high polarization-maintaining single-mode hollow-core anti-resonant fiber (PM-HC-ARF) is designed. The elliptical ...



Here, we propose an all-solid anti-resonant fiber (ARF) structure, which ensures single-mode operation in broadband by resonantly coupling higher-order modes ...



Here, we propose an all-solid anti-resonant fiber (ARF) structure, which ensures single-mode operation in broadband by resonantly coupling higher-order modes into the cladding.



We propose a novel hollow-core anti-resonant fiber (HC-ARF) with double tangent circular arc tubes (CATs) for robust single-polarization single ...



We investigate the feasibility of applying an anti-resonant guiding mechanism in an all-solid anti-resonant fiber (AS-ARF) to achieve a large mode area (LMA) and single mode for high-power fiber ...



A novel hollow-core anti-resonant fiber (HC-ARF) with various-diameter anti-resonant elements (AREs) that can simultaneously provide low bending losses and robust single-mode ...



Adding nested elements in the anti-resonance tube is an effective way to reduce fiber loss. This paper proposes a novel 5-tube HC-ARF that is added a flat glass bar between the nested ...



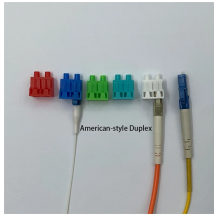
In the paper, a hollow-core anti-resonant fiber (HC-ARF) that can support SPSM beam transmission with an average loss of 15 dB/km in wavelengths beyond 1000 nm is proposed.



The results of this fiber structure design and process analysis provide important theoretical support and practical guidance for the development and manufacturing of high-performance single ...



Abstract: In this paper, to the best of our knowledge, a new type of hollow-core anti-resonant fiber (HC-ARF) design using hybrid silica/high-index material (HIM) cladding is presented for single ...



In this paper, a hollow-core anti-resonant optical fibre containing a semi-elliptical nested tube is proposed, which has the characteristics of single-polarization, large bandwidth, single-mode ...



In this paper, a low loss and high polarization-maintaining single-mode hollow-core anti-resonant fiber (PM-HC-ARF) is designed. The elliptical core in the PM-HC-ARF is formed by ...

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