Abstracts

New and flexible fiber-optic delay-line filters using chirped Bragg gratings and laser arrays

J. Capmany, D. Pastor and B. Ortega. "New and flexible fiber-optic delay-line filters using chirped Bragg gratings and laser arrays." 1999 Transactions on Microwave Theory and Techniques 47.7 (Jul. 1999, Part II [T-MTT] (Special Issue on Microwave and Millimeter-Wave Photonics)): 1321-1326.

We propose a novel kind of radio-frequency filters that are composed by a linearly chirped fiber grating and a laser array. These structures are capable of providing full transfer-function reconfiguration and resonance tunability. A thorough theoretical modeling and operation features are provided along with the experimental demonstration of the proposed features.

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