426.
标题: High-capacity radio frequency identification-based radio over fiber system
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来源出版物: MICROWAVE AND OPTICAL TECHNOLOGY LETTERS 卷: 54 期: 7 页: 1637-1642 DOI: 10.1002/mop.26899 出版年: JUL 2012
在 Web of Science 中的被引频次: 0
被引频次合计: 0
引用的参考文献数: 22
摘要: We present the use of a serial ring resonator system for multichannel radio frequency generation that can be used to form the radio frequency identification (RFID) application. A system consists of a serial nonlinear microring resonator system for generating pulse and selecting signals that can be filtered by using the add/drop filter. The input pulse is a Gaussian pulse with center wavelength at 1,500 nm. By using suitable simulation microring parameters, the generation of signal with the center wavelength or frequency at 2.15 nm or 285 GHz is achieved, where the high frequency RFID with 91 channels is generated and noted. The use of THz frequency enhancement and RFID-based wireless communication is discussed. (C) 2012 Wiley Periodicals, Inc. Microwave Opt Technol Lett 54:16371642, 2012; View this article online at wileyonlinelibrary.com. DOI 10.1002/mop.26899
入藏号: WOS:000302801800024
语种: English
文献类型: Article
作者关键词: optical radio frequency identification; THz frequency; wireless communication; radio over fiber
KeyWords Plus: RING-RESONATOR; MICRORING RESONATORS; GENERATION; DISPERSION; NETWORK
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出版商: WILEY-BLACKWELL
出版商地址: COMMERCE PLACE, 350 MAIN ST, MALDEN 02148, MA USA
Web of Science 分类: Engineering, Electrical & Electronic; Optics
学科类别: Engineering; Optics
IDS 号: 925ZT
ISSN: 0895-2477
29 字符的来源出版物名称缩写: MICROW OPT TECHN LET
ISO 来源出版物缩写: Microw. Opt. Technol. Lett.
来源出版物页码计数: 6