424.
标题: Photonic synthesis of continuous-wave millimeter-wave signals using a passively mode-locked laser diode and selective optical filtering
作者: Acedo, P (Acedo, P.); Carpintero, G (Carpintero, G.); Criado, AR (Criado, A. R.); de Dios, C (de Dios, C.); Yvind, K (Yvind, K.)
来源出版物: MICROWAVE AND OPTICAL TECHNOLOGY LETTERS 卷: 54 期: 6 页: 1416-1419 DOI: 10.1002/mop.26822 出版年: JUN 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: 11
摘要: We report a photonic synthesis scheme for continuous wave millimeter-wave signal generation using a single passively mode-locked laser diode (PMLLD), optical filtering and photomixing in a fast photodiode.The phase noise of the photonically synthesized signals is evaluated and inherits the characteristics of the PMLLD electrical power spectrum. (C) 2012 Wiley Periodicals, Inc. Microwave Opt Technol Lett 54:14161419, 2012; View this article online at wileyonlinelibrary.com. DOI 10.1002/mop.26822
入藏号: WOS:000301715800021
语种: English
文献类型: Article
作者关键词: millimeter-wave photonic generation; mode-locked lasers; photomixing; phase noise
KeyWords Plus: TERAHERTZ WAVES; GENERATION
地址: [Acedo, P.; Carpintero, G.; Criado, A. R.; de Dios, C.] Univ Carlos III Madrid, Dept Elect Technol, Madrid 28911, Spain
[Yvind, K.] Tech Univ Denmark, DTU Fotonik, Dept Photoniks Engn, DK-2800 Lyngby, Denmark
通讯作者地址: Acedo, P (通讯作者),Univ Carlos III Madrid, Dept Elect Technol, Madrid 28911, Spain
电子邮件地址: pag@ing.uc3m.es
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: 911KN
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: 4