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标题: Ultra-compacted sub-terahertz bandpass filter in 0.13 mu m SiGe
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来源出版物: ELECTRONICS LETTERS 卷: 48 期: 10 页: 570-U56 DOI: 10.1049/el.2011.3428 出版年: MAY 10 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: 4
摘要: The design of an ultra-compacted silicon-based bandpass filter in the sub-terahertz frequency range is explored. A filter with combline topology consisting of multilayered resonators and a cross-coupling capacitor has been designed in 0.13 mu m SiGe. The dimensions of the implemented filter are 40 x 130 mu m(2), which are even smaller than a ground-signal-ground probing pad with 100 mu m pitch. Meanwhile, the filter achieves a 3 dB bandwidth of about 32.0 GHz (22.0%) and an insertion loss of -7.7 dB at the centre frequency of 143 GHz.
入藏号: WOS:000303917800024
语种: English
文献类型: Article
KeyWords Plus: TECHNOLOGY
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出版商: INST ENGINEERING TECHNOLOGY-IET
出版商地址: MICHAEL FARADAY HOUSE SIX HILLS WAY STEVENAGE, HERTFORD SG1 2AY, ENGLAND
Web of Science 分类: Engineering, Electrical & Electronic
学科类别: Engineering
IDS 号: 940UE
ISSN: 0013-5194
29 字符的来源出版物名称缩写: ELECTRON LETT
ISO 来源出版物缩写: Electron. Lett.
来源出版物页码计数: 2