Scopus (/home.uri?zone=header&origin=searchbasic)

Document details

< Back to results (https://www.scopus.com/results/results.uri?sort=plf-f&src=s&st1=Reduction+of+phase+noise+for+inductor+based+ultra-wide+band+voltage+controlled+oscillator&st2=&sid=F24FB1E767E666F704C6B778123C0A26.wsnAw8kcdt7IPYLO0V48gA%3a3520&sot=b&sdt=b&sl=104&s=TI ABS-KEY%28Reduction+of+phase+noise+for+inductor+based+ultra-wide+band+voltage+controlled+oscillator%29&offset=1&origin=recordpage)

1 of 1

Export Download Print E-mail Save to PDF Add to List More... >

Full Text (https://www.scopus.com/redirect/linking.uri?targetURL=https%3a%2f%2fdoi.org%2f10.1109%2flCCCCEE.2017.7866704&locationID=1&categoryID=4&eid=2-s2.0-85016588257&issn=&linkType=TemplateLinking&year=2017&zone=outwardlinks&origin=recordpage&dig=1233ca12bd7b71808115689a538782c3&recordRank=) at Publisher (https://www.scopus.com/redirect/linking.uri?targetURL=https%3a%2f%2fdoi.org%2f10.1109%2flCCCCEE.2017.7866704&locationID=1&categoryID=4&eid=2-s2.0-85016588257&issn=&linkType=ViewAtPublisher&year=2017&origin=recordpage&dig=e92ca3a73bafbd95236ab915bd5729ee&recordRank=)

Proceedings - 2017 International Conference on Communication, Control, Computing and Electronics Engineering, ICCCCEE 2017
27 February 2017, Article number 7866704
2017 International Conference on Communication, Control, Computing and Electronics Engineering, ICCCCEE 2017; Friendship HallKhartoum; Sudan; 16 January 2017 through 17 January 2017; Category numberCFP17TPC-ART; Code 126713

Reduction of phase noise for inductor based ultra-wide band voltage controlled oscillator (Conference Paper)

Azam, S.M.K. (https://www.scopus.com/authid/detail.uri?authorId=57193790698&eid=2-s2.0-85016588257) (mailto:kaysereee2k8@gmail.com),
Ibrahimy, M.I. (https://www.scopus.com/authid/detail.uri?authorId=13806505800&eid=2-s2.0-85016588257) (mailto:ibrahimy@iium.edu.my),
Motakabber, S.M.A. (https://www.scopus.com/authid/detail.uri?authorId=26435981800&eid=2-s2.0-85016588257) (mailto:amotakabber@iium.edu.my)

Dept. of Electrical and Computer Engineering, International Islamic University Malaysia, Kuala Lumpur, Malaysia

Abstract

View references (16)

Several techniques have been investigated in this paper to propose the reduction of phase noise due to electro-magnetic interference for inductor based ultra-wide band voltage controlled oscillator (VCO). Furthermore, figure of merit of VCO and its tuning range have been compared to exhibit the improved performance. According to article, phase noise has been stated as -151 dBc/Hz at 20 MHz offset frequency and tuning range has been implied as 69.76% of 4.3 GHz center frequency. Electro-magnetic coupling has been decreased to 44 dB by 8-shaped inductor based harmonic VCO proposed in the literature. © 2017 IEEE.

Author keywords

electro-magnetic interference reduction Phase noise reduction ultra-wide band VCO

Indexed keywords

Engineering controlled terms: Circuit oscillations Electric inductors Magnetic couplings Magnetism Noise abatement Oscillistors Tuning Ultra-wideband (UWB) Variable frequency oscillators

Metrics

0 Citations

0 Field-Weighted Citation Impact

Cited by 0 documents

Inform me when this document is cited in Scopus:

Set citation alert > (/alert/form/documen

Set citation feed > (/results/rss/handler.u

Related documents

A 2.8-to-5.8 GHz harmonic VCO in a 28 nm UTBB FD-SOI CMOS process (https://www.scopus.com/record/disp origin=recordpage&zone=relatedDoc s2.0-84975726990&citeCnt=0&noHighlig f&src=s&st1=Reduction+of+phase+no wide+band+voltage+controlled+oscill ABS-KEY%28Reduction+of+phase+noise+ wide+band+voltage+controlled+oscill Fanori, L. (https://www.scopus.com/authid/deta origin=recordpage&authorId=36085 , Mahmoud, A. (https://www.scopus.com/authid/deta origin=recordpage&authorId=57188 , Mattsson, T. (https://www.scopus.com/authid/deta origin=recordpage&authorId=56265 *(2015) Digest of Papers - IEEE Radio Frequency Integrated Circuits Symposium*

A low phase noise wideband VCO with 8-shaped inductor (https://www.scopus.com/record/disp origin=recordpage&zone=relatedDoc s2.0-85013855664&citeCnt=0&noHighlig f&src=s&st1=Reduction+of+phase+no wide+band+voltage+controlled+oscill ABS-KEY%28Reduction+of+phase+noise+ wide+band+voltage+controlled+oscill Zou, W. (https://www.scopus.com/authid/deta origin=recordpage&authorId=57193 , Ren, Z.