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... In recent years, the design of 60GHz low

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noise amplifier mainly has two kinds circuit structure, one is the single ended structure, the other is the differential structure 60GHz low noise amplifier needed to ... Design of a 60 GHz Low Noise Amplifier in a 013 m SiGe ...

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A low power 60-GHz on-off-keying (OOK) receiver is implemented in a commercial 90nm RF CMOS process. The receiver includes on-chip antenna, LNA, 60GHz detector and limiting amplifier, all ...

~~Design of a low-power 60 GHz transceiver~~

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60 GHz receiver design is to correctly predict the expected maximum input signal (usually originating from interference) and adjust the required linearity accordingly, as it is directly

~~(PDF) Design of a Very Low-power, Low-~~

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The design of a 60 GHz low loss hybrid phase shifter with 360 degree phase shift

Abstract: This paper presents a 60 GHz low loss phase shifter characterized by 360 degree phase shift and low variation of insertion loss using GaAs pHEMT process.

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Implementation of Its Key Building Blocks
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Worldwide regulations for short range
communication devices allow the

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A low noise amplifier is designed for future

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SiGe Technology applications in the 60GHz band, using an existing SiGe technology, BiCMOS8HP from IBM. Different topologies are analyzed and compared. To different schematics of single ended three stage designs are compared. A differential four stage CE topology is designed and simulated with parasitic extraction.

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~~Design of a 60GHz Low Noise Amplifier in
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Low-power 60 GHz low-noise amplifier (LNA) with a 9.379 dB peak gain and a 4.500 dB minimum NF is demonstrated in a GaAs Based technology. The LNA is composed of three stage of cascaded

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~~Design of 60 GHz GaAs LNA | Request
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Abstract: This paper presents the design of a low-power millimeter wave receiver for Gbps short range wireless communications in the 60GHz frequency range. The scope of

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Signal Technology
this paper covers the system design of the OOK direct conversion receiver, the design of a novel 60GHz low-noise amplifier, the co-design of the mixer with the IF amplifier and the design of a IF variable gain amplifier.

~~Design of a low power 60GHz OOK
receiver in 65nm CMOS ...~~

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The most common wireless applications in 1994 were still broadcast TV and cellular systems. Both of these operated in the much lower range of 600MHz to roughly 2GHz bands. Design and operation of 60GHz mmwave systems was very difficult and expensive. The eco-system of components, test gear and more just did not exist.

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~~60GHz mmwave Explained - Siklu Ltd~~

This architecture has been used in the production of a low-cost, 60-GHz module that supported a data rate greater than 155 Mbps. Variations of the complete chip-set architecture can be used to...

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~~60-GHz Transceiver Flaunts Low Cost ...
Electronic Design~~

Design and Multiphysics Analysis of Low-Loss 60-GHz SPNT RF-MEMS Switches M. W. Rousstia and M. H. A. J. Herben
Eindhoven University of Technology,
Department of Electrical Engineering,
Electromagnetics Group, P.O. Box 513,

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5600 MB, Eindhoven, The Netherlands, +31
(0)40 247 5287 Abstract — A design of a
capacitive-shunt RF-MEMS

~~Design and multiphysics analysis of low-loss
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Design of 60-GHz low-noise amplifiers with
low NF and robust ESD protection in

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65-nm CMOS January 2013 IEEE

Transactions on Microwave Theory and
Techniques 61(1):553-561

~~Design of 60 GHz low noise amplifiers with
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considering this one. Merely said, the
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Design and modeling of 60-GHz CMOS
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integrated circuits.~~

60GHz, the unilateral gain is 8.6dB while the MSG is 6.3dB. For 60GHz circuit design, the reactive component values are very small, requiring inductance values on the order of

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50 – 150pH. Direct implementation of these elements using spiral inductors do not have the required accuracy, so transmission lines are used with the

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~~WIRELESS TRENDS: LOW POWER ...~~

Design and implementation of a 60GHz

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digitally-controlled passive phase shifter. It consists of a differential transmission loaded with a differential MOS varactor at each side. It achieves low cost, simple design, low insertion loss, a phase-shift step of 22.5° and a phase shift range of 360° at 60GHz.

~~Design methods for 60GHz beamformers in~~

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Modern V-band 60GHz radios from CableFree are easy-to-deploy, cost-effective, wireless Gigabit Ethernet point-to-point bridges operating in the 60 GHz millimeter wave V-band, delivering full-duplex capacity of up to 1 Gbit/s over distances of up to 1km or more. Utilising Time Division

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Duplexing (TDD), the full 2.3Gbps capacity of the radio is available divided into both directions for transmit and receive under user control.

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