

Converting Oscillator Phase Noise to Time Jitter

by Walt Kester

INTRODUCTION

A low aperture jitter specification of an ADC is critical to achieving high levels of signal-to-noise ratios (SNR). (See References 1, 2, and 3). ADCs are available with aperture jitter specifications as low as 60-fs rms ([AD9445](#) 14-bits @ 125 MSPS and [AD9446](#) 16-bits @ 100 MSPS). Extremely low jitter sampling clocks must therefore be utilized so that the ADC performance is not degraded, because the total jitter is the root-sum-square of the internal converter aperture jitter and the external sampling clock jitter. However, oscillators used for sampling clock generation are more often specified in terms of phase noise rather than time jitter. The purpose of this discussion is to develop a simple method for converting oscillator phase noise into time jitter.

PHASE NOISE DEFINED

First, a few definitions are in order. Figure 1 shows a typical output frequency spectrum of a non-ideal oscillator (i.e., one that has jitter in the time domain, corresponding to phase noise in the frequency domain). The spectrum shows the noise power in a 1-Hz bandwidth as a function of frequency. Phase noise is defined as the ratio of the noise in a 1-Hz bandwidth at a specified frequency offset, f_m , to the oscillator signal amplitude at frequency f_0 .

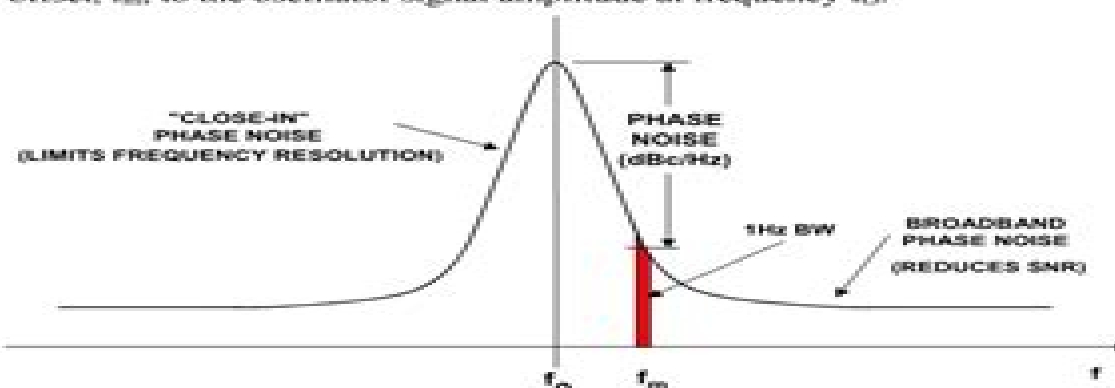


Figure 1: Oscillator Power Spectrum Due to Phase Noise

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A Guide to Noise in Microwave Circuits Peter Heymann, Matthias Rudolph, 2021-12-02 A GUIDE TO NOISE IN MICROWAVE CIRCUITS A fulsome exploration of critical considerations in microwave circuit noise In A Guide to Noise in Microwave Circuits Devices Circuits and Measurement a team of distinguished researchers deliver a comprehensive introduction to noise in microwave circuits with a strong focus on noise characterization of devices and circuits The book describes fluctuations beginning with their physical origin and touches on the general description of noise in linear and non linear circuits Several chapters are devoted to the description of noise measurement techniques and the interpretation of measured data A full chapter is dedicated to noise sources as well including thermal shot plasma and current A Guide to Noise in Microwave Circuits offers examples of measurement problems like low noise block LNB of satellite television and explores equipment and measurement methods like the Y cold source and 7 state method This book also includes A thorough introduction to foundational terms in microwave circuit noise including average values amplitude distribution autocorrelation cross correlation and noise spectra Comprehensive explorations of common noise sources including thermal noise the Nyquist formula and thermal radiation shot noise plasma noise and more Practical discussions of noise and linear networks including narrowband noise In depth examinations of calculation methods for noise quantities including noise voltages currents and spectra the noise correlation matrix and the noise of simple passive networks Perfect for graduate students specializing in microwave and wireless electronics A Guide to Noise in Microwave Circuits Devices Circuits and Measurement will also earn a place in the libraries of professional engineers working in microwave or wireless circuits and system design

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Elsherbeni, 2021-08-16 This new handbook on radar signal analysis adopts a deliberate and systematic approach It uses a clear and consistent level of delivery while maintaining strong and easy to follow mathematical details The emphasis of this book is on radar signal types and their relevant signal processing and not on radar systems hardware or components This handbook serves as a valuable reference to a wide range of audience More specifically college level students practicing radar engineers as well as casual readers of the subject are the intended target audience of the first few chapters of this book As the book chapters progress these grow in complexity and specificity Accordingly later chapters are intended for practicing engineers graduate college students and advanced readers Finally the last few chapters contain several special topics on radar systems that are both educational and scientifically entertaining to all readers The presentation of topics in this handbook takes the reader on a scientific journey whose major landmarks comprise the different radar subsystems and components In this context the chapters follow the radar signal along this journey from its birth to the end of its life Along the way the different relevant radar subsystems are analyzed and discussed in great detail The chapter contributors of this new handbook comprise experienced academia members and practicing radar engineers Their combined years of academic and real world experiences are in excess of 175 Together they bring a unique easy to follow mix of mathematical and practical presentations of the topics discussed in this book See the Chapter Contributors section to learn more about these individuals Intelligent System and Computing Yang Yi, 2020-04-29 The book Intelligent System and Computing reports the theory mathematical models algorithms design methods and applications of intelligent systems and computing It covers various disciplines including computer and information science electrical and computer engineering natural sciences economics and neuroscience The broad ranging discussion covers the key disciplines in computational science and artificial intelligence as well as advances in neuromorphic computing deep learning the Internet of Things computer vision and many others This volume provides both academics and professionals with a comprehensive overview of the field and presents areas for future research **NASA Patent Abstracts Bibliography** United States. National Aeronautics and Space Administration Scientific and Technical Information Division, 1990 NASA Patent Abstracts Bibliography: A Continuing

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