



SDI Review Form 1.6

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_44221
Title of the Manuscript:	Double-Balanced Mixer for RF Applications
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	ABSTRACT: - full meaning of an acronym should come before the acronym so the right expression should be Radio Frequency Integrated Circuit (RFIC) design - Frist state the full meaning of RF before using the acronym - CMOS (complementary metal-oxide semiconductor) process. Refer to a) INTRODUCTION - RF IC (radio 15 frequency integrated circuit): refer to comment 1a) - WiMAX (worldwide interoperability for microwave access) should be WiMAX (Worldwide Interoperability for Microwave Access). - Fig. 1 should be re-drawn so that it will be more clearer - since figure 1 is at the center, the figure caption should also be at the center - intermediate frequency (IF) should be Intermediate Frequency (IF) - local oscillator (LO) should be Local Oscillator (LO). LITERATURE REVIEW - analog-to35 digital converter (ADC) and digital signal processing (DSP) should be Analog-to-Digital Converter (ADC) and Digital Signal Processing (DSP) - low-pass filter (LPF) should be Low-Pass Filter (LPF) - since figure 2 is at the center, the figure caption should also be at the center - equations should be well arranged as it looks like equation 1 is missing - use equation editor to re-write equation 2. You will observe that equation 3 is more clearer Most importantly, the meanings of the variables in equations 1-3 is missing. This is very germane and must be included in your report. Variables like V_{IF}, V_{RF}, P_{IF}, P_{RF} etc Also, your literature review is not complete without a review of related works. I expect you to revise what other researchers have done as regards your problem area in order to establish the gap you have identified - Refer to 3c as regards fig 3 - Let section 3 reflect that it is your methodology, include the header DESIGN AND IMPLEMENTATION before title ACTUAL MIXER DESIGN - Also your design section should be separated from your results. Dedicate a separate section for your results	a)



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<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		

PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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