Abstract

In this paper the analysis of the different types of input impedance matching network for realization of efficient RF energy harvesting circuit. In mobile application like wireless sensors there is issue of long term power backup and charging of batteries. In this paper, there is design to matching circuit compatible for RF energy harvesting by using L-section to proposed for obtaining the signal bandwidth 900MHz with a noise figure of 4.8 dB. L network is working as resonating frequency(900MHz) as well as matching network at resonant frequency.
References

- Oi-Ying Wong, Hei Wong, Wing-shan Tam, chi-Wah kok, "Topology, analysis and CMOS implementation of switched capacitor DC-Dc Converters". Electronics and Energitics Vol. 27, No. 1, March 2014, pp. 41-46.
- Praharshin M. Senadeera, James Greggs, Zhijian Xie, and Numan S. Dogan, Meng Li, and Nader Behad, and Hriseyn S. Savci. "X-Band Energy Harvester with minaiaaturized on chip Slot Antenna Implemented in 0.18um RF CMOS. 978-1-4577-2032-1/12,2012IEEE.
Power Amplifiers. 978-1-4799-8275-2/15/2005 IEEE.

Index Terms
Computer Science Circuits And Systems

Keywords
Energy Harvester Low Pass Filter Rectifier Circuit