Abstract

Present handheld devices like Smart phones, can be charged wirelessly using new energy harvesting circuit technique through using the traditional wireless technologies. In this case, Bluetooth with a charging circuit enables a short-range wireless charging of a mobile handheld. This paper presents the overview of new process of charging and structure of power charging based on Scotty diode with a real commercial film-type antenna on mobile terminal. So that it
may called smart charging, this new circuit improves the efficiency in charging upto 160%, known to be 0.45 mA, relatively, 5 mA for smart phones.

References


- Vathulya, V. R., Sowlati, T., Leenaerts, D.: Class 1 Bluetooth power amplifier with 24 dBm output power and 48% PAE at 2.4 GHz in 0.25 µm CMOS. Solid-state Circuits Conf., August, 2005, pp. 57–60.


Index Terms

Computer Science

Wireless Communication
Keywords
Bluetooth  Three-stage Villard Voltage Multiplier  Smart Phones