Abstracts

Architecture and algorithm for high precision image rejection and spurious rejection mixers using digital compensation

Youngjin Kim, Sangho Shin and Kwyro Lee. "Architecture and algorithm for high precision image rejection and spurious rejection mixers using digital compensation." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 799-802 vol.2.

A high precision IRM and SRM architecture composed of analog RF and digital IF mixers are proposed. A precise and fast measurement algorithm for gain and phase mismatches is proposed, which are, then, compensated by digital signal processing. A prototype 2.4 GHz IRM with IRR>70 and BW=11 MHz is demonstrated by using this technique.

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