Abstracts

Determination of receiver selectivity and transmit frequency using a common resonator

S.D. Silk and S.L. Kuffner. "Determination of receiver selectivity and transmit frequency using a common resonator." 2002 Microwave and Wireless Components Letters 12.1 (Jan. 2002 [MWCL]): 1-2.

In this work, the determination of receiver selectivity and transmit frequency using a common resonator is presented for a 5.3 GHz transceiver employing a time division duplex, on-off keyed modulation format. The microstrip circuit is fabricated on Rogers RO4003/sup (R)/, a high frequency laminate. In receive mode, a 3 dB passband of 35 MHz and a small-signal gain of 26 dB has been achieved. In transmit mode, an output power of +7 dBm for the fundamental, -15.0 dBm for the second harmonic, -18.0 dBm for the third harmonic, and -35.0 dBm for the fourth harmonic has been achieved.

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