Abstracts

Low Voltage, High Power T/R Switch MMIC Using LC Resonators

T. Tokumitsu, I. Toyoda and M. Aikawa. "Low Voltage, High Power T/R Switch MMIC Using LC Resonators." 1993 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 93.1 (1993 [MCS]): 27-30.

A novel T/R switch for high-power/low-distortion operation at low control voltage is proposed. LC-resonant switches composed of inductors, capacitors, and switching FET's are incorporated in the TX and RX arms to provide a reverse control scheme which removes the RF voltage limitation in the transmit mode. An LC-resonant T/R switch with total periphery of 2.88 mm exhibits 3-rd IMR less than -40 dB for input power up to 28 dBm when controlled at 0V/-2V.

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