

Voltage Controlled Push-Push Oscillators Using Miniaturized Hairpin Resonators

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This paper describes the fundamental characteristics of newly developed compact stepped impedance hairpin resonators having parallel coupled lines and shows their application to voltage controlled push-push oscillators for UHF band operation. The experimental push-push oscillators which were built using these resonators made it clear that they have the advantage of providing compact size, low phase noise and wide tuning operation.

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