

A MIC PHASED LOCKED LOOP AVALANCHE OSCILLATOR IN X BAND

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Abstract

This paper describes the design and performances of a MIC Phase Locked Loop X band Avalanche Oscillator. The Output power (500 mW/CW) the input reference level (1 mW) the locking time (80 nanoseconds) and the simplicity of digital phase control makes it very attractive as a primary element of an active phased array.