

# Abstracts

## A Step-Iris Resonator for LSA Operation (Correspondence)

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*R.R. Spiwak. "A Step-Iris Resonator for LSA Operation (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.11 (Nov. 1970 [T-MTT] (Special Issue on Microwave Circuit Aspects of Avalanche-Diode and Transferred Electron Devices)): 973-975.*

A step-iris resonator circuit which substantially increases the efficiency of limited-space-charge-accumulation (LSA) oscillators has been designed. The circuit design employs harmonic tuning that provides the proper impedances at the second and third harmonics of the oscillator frequency. The efficiency obtained with the step-iris resonator is about 1.7 times greater than that obtained with a conventional rectangular resonant iris.

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