

# Abstracts

## Analysis of a Microwave Resonator-Feedback Oscillator (Correspondence)

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*J.R. Kim, L.C. Gunderson and J. Singletary. "Analysis of a Microwave Resonator-Feedback Oscillator (Correspondence)." 1971 Transactions on Microwave Theory and Techniques 19.3 (Mar. 1971 [T-MTT]): 331-332.*

The temperature stability of the oscillation frequency,  $(\Delta \omega / \omega) / \Delta T$ , of an S-band feedback oscillator is derived in terms of the temperature stability of the stable resonator and that of the circuits external to the resonator. Conditions have been established for the optimum external circuit to achieve temperature stability of the oscillation frequency.

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