# Abstracts

## Temperature Characteristics of Microwave Acoustic Resonators

*R.A. Moore, B.A. Newman, B.R. McAvoy and J. Murphy. "Temperature Characteristics of Microwave Acoustic Resonators." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 171-173.*

Bulk acoustic resonators offer Q's greater than are available by any other means for microwave frequencies. The use of separate resonant substrates and transducers allow higher Q media not available when excitation is by means of the piezoelectricity of the substrate. Resonators with Q's to 20,000 have been tested. Analysis of temperature propagation characteristics for high Q materials is reported with examples illustrated. Diamond appears to be a candidate for low temperature sensitivity.

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