

Abstracts

Applications of AlN Thin-Film Resonator Topologies as Antennas and Sensors

R.J. Weber, S.G. Burns, C.F. Campbell and R. O'Toole. "Applications of AlN Thin-Film Resonator Topologies as Antennas and Sensors." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. 1 [MWSYM]): 161-164.

The use of thin-film resonator (TFR) technology as on-wafer components is of considerable current interest. Cointegration of the TFR and active devices has been demonstrated. We report on two novel microwave applications of the TFR technology. The first application is the use of an array of TFRs as an on-wafer, phased-array antenna; the second is as a gas and chemical mass sensor with nanogram sensitivity.

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