Abstracts

SAW Oscillator in UHF Transit Satellite Links (1981 [MWSYM])

B.Y. Lao, N.J. Schneier, D.A. Rowe, R.E. Dietterle, J.S. Schoenwald, E.J. Staples and J. Wise. "SAW Oscillator in UHF Transit Satellite Links (1981 [MWSYM])." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 380-382.

A 375 MHz SAW resonator controlled oscillator is developed for application in the transit satellite marine navigation system. The SAW oscillator, in a two-cubic-inch hybrid package, contains a heater, voltage regulator and divider and is a direct replacement for a bulk wave oscillator and its multiplier chain. Short term stability of 2 x 10E -10 and aging of 3 x 10E -8/day were achieved at 75°C. Comparison tests showed that the navigation system accuracy with the SAW oscillator was equivalent to a bulk oscialltor.

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