Abstracts

A Radar System Application of an 840-MHz SAW Resonator Stabilized Oscillator

W.J. Tanski, R.A. St. Cyr, P.G. Dragonetti and E.G. Kosco. "A Radar System Application of an 840-MHz SAW Resonator Stabilized Oscillator." 1981 Transactions on Microwave Theory and Techniques 29.5 (May 1981 [T-MTT] (Joint Special Issue on Surface-Acoustic-Wave Device Applications)): 424-428.

An 840-MHz SAW resonator stabilized oscillator has been developed and is being manufactured for incorporation into a radar system. This stable fundamental-mode frequency source is simple and compact (1 in^3 in volume) and delivers a relatively high output power of +25 dBm. These advantageous characteristics are made possible by the high-frequency low-loss distortion-free/linear-phase response of the two-port SAW resonator filter incorporated in the design. Details of the device and circuit design and oscillator performance are presented.

❑ Return to main document.