Abstracts

Frequency/Temperature Compensated Millimeter-Wave Oscillators and Broadband VCO's in Lumped-Element and Printed-Circuit Forms

L.D. Cohen and N. King, Jr.. "Frequency/Temperature Compensated Millimeter-Wave Oscillators and Broadband VCO's in Lumped-Element and Printed-Circuit Forms." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 169-172.

Frequency/temperature compensation of millimeter-wave, lumped-element, Gunn oscillators and broadband VCO's by use of a simple capacitive compensating element has been demonstrated with performance that includes ±1.5 ppm/°C frequency stability at 30 GHz over a temperature range of -40° to +71°C. A printed-circuit oscillator, in which the temperature compensating capacitor is printed in situ with the circuit elements, will also be described.

❑ Return to main document.