

Abstracts

Low Phase Noise Superconducting Oscillators

A.P.S. Khanna and M. Schmidt. "Low Phase Noise Superconducting Oscillators." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 1239-1242.

Microstrip resonators fabricated from thallium high temperature superconducting thin films have loaded Q values in the 8,000 to 20,000 range at frequencies up to X band. The resonators are used as the stabilizing elements in low phase noise microwave oscillators. These superconducting oscillators (SCO's) demonstrate improved performance over conventional dielectric resonator oscillators (DRO's) operating at the same frequencies.

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