Abstracts

Stable Microwave Source Using High Overtone Bulk Resonators

J.T. Haynes, M.S. Buchalter, R.A. Moore, H.L. Salvo, S.G. Shepherd and B.R. McAvoy. "Stable Microwave Source Using High Overtone Bulk Resonators." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 243-246.

The high overtone bulk acoustic resonator (HBAR) provides the basis for stable microwave sources. The HBAR's high Q, closely spaced, periodic resonances provide stabilization for multiple frequency microwave sources. Recently an L-band source with 5 MHz channels has been developed. This HBAR source has phase noise performance equivalent to that of sources based on low frequency quartz crystal stabilization and multiplication, but it requires only a fraction of the hardware.

❑ Return to main document.