

Abstracts

An Ultra Low Noise Microwave Synthesizer (1979 [MWSYM])

G.D. Alley and H.C. Wang. "An Ultra Low Noise Microwave Synthesizer (1979 [MWSYM])." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 147-149.

A silicon bipolar transistor together with a Ba/sub 2/Ti/sub 9/O/sub 20/ dielectric resonator were used to design a low noise microwave synthesizer. The resulting FM noise Δf_{rms} , was less than 0.0003 Hz in any 1 Hz band greater than 1000 Hz from the 1 GHz carrier.

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