

Abstracts

Ultra Low Noise Microwave Oscillators with Low Residual Flicker Noise

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This paper describes the design of two low noise microwave oscillators operating at 7.6 GHz. These oscillators use room temperature Sapphire resonators operating in the TE/sub 01/delta mode which demonstrate unloaded Q's of 44,000. Silicon transposed gain amplifiers are used to produce low Flicker noise corners of 1 to 2KHz and a phase noise of -131dBc at 10 KHz offset. Further improvements of 30 dB are expected using this technique.

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