

# Abstracts

## Ultra Low Noise Microwave Oscillators with Low Residual Flicker Noise

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*J.K.A. Everard and M. Page-Jones. "Ultra Low Noise Microwave Oscillators with Low Residual Flicker Noise." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 693-696.*

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</sub>/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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