Autor(en) des Beitrags:
Eichinger, Ludwig; Sischka, F.; Olbrich, Gerhard R.; Weigel, Robert

Titel des Beitrags:
Accurate Design of Low-Noise Microwave SAW Oscillators

Abstract:
An accurate characterization and design was achieved with Computer-Aided-Engineering (CAE) of a hybrid oscillator at 1.9805 GHz using acoustic surface transverse wave (STW) delay lines as the frequency-controlling element. This design showed a very good agreement between simulated and measured data. Our motivation is to show an example of an accurate design before building up the prototype. We demonstrate the design steps including the necessary measurements and modeling methods and the used simulation technologies to achieve the goal.

Stichworte:
1.9805 GHz, acoustic microwave devices, acoustic surface transverse wave delay line, computer aided engineering, computer-aided engineering, design, frequency control, hybrid oscillator, low-noise microwave SAW oscillator, microwave oscillators, surface acoustic wave delay lines, surface acoustic wave oscillators

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