Abstracts

A microwave position sensor with submillimeter accuracy

A. Stelzer, C.G. Diskus, K. Lubke and H.W. Thim. "A microwave position sensor with submillimeter accuracy." 1999 Transactions on Microwave Theory and Techniques 47.12 (Dec. 1999 [T-MTT] (Special Issue on 1999 International Microwave Symposium)): 2621-2624.

Design and characteristics of a prototype distance sensor are presented in this paper. The radar front-end operates at 35 GHz and applies six-port technology and direct frequency measurement. The sensor makes use of both frequency-modulated continuous wave and interferometer principles and is capable of measuring distance with a very high accuracy of /spl plusmn/0.1 mm.

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