

## Integrated microwave sensor for cavity-length measurement with sub-millimeter accuracy

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A. Megej, K. Beilenhoff, M. Schussler, A. Ziroff, B. Mottet, O. Yilmazoglu, K. Mutamba, C.D. Hamann, R. Baican and H.L. Hartnagel. "Integrated microwave sensor for cavity-length measurement with sub-millimeter accuracy." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 643-646 vol.2.

A novel measurement procedure using microwaves is presented. The implemented sensor determines the length of a cylindrical cavity (e.g. hydraulic system) with sub-millimeter accuracy in real time. The principle of operation is based on the detection of the resonance-frequency distribution in a cavity resonator.

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