

Abstracts

Millimeter-Wave Components and Subsystems Built Using Microstrip Technology

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This paper describes how various circuit elements have been realized on microstrip for operation in the millimeter-wave bands. The manufacturing process for thin-film MIC's on single-crystal quartz is described. Designs for various circuit elements are discussed, and an integrated subsystem is described in which MIC techniques are used to produce a miniature millimeter-wave distance-measuring sensor. Range measurement results for the miniature sensor are presented.

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