Abstracts

Trimming of Microstrip Circuits Utilizing Microcantilever Air Gaps (Correspondence)

T.MS. Heng. "Trimming of Microstrip Circuits Utilizing Microcantilever Air Gaps (Correspondence)." 1971 Transactions on Microwave Theory and Techniques 19.7 (Jul. 1971 [T-MTT] (Special Issue on Microwave Integrated Circuits)): 652-654.

A reliable method of tuning and microwave integrated circuit (MIC) line connection which has potential up to X band has been demonstrated. The method utilizes integrable fabricated microcantilever air gaps which are cold-deformed in situ to accomplish trimming. The advantages of this concept are 1) high open-circuit impedance, 2) low short-circuit insertion loss, 3) high trim resolution, 4) low line perturbation, 5) high mechanical stability, and 6) in situ fabrication with the rest of MIC circuitry.

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