Abstracts

A Millimeter-Wave Micromachined Lowpass Filter Using Lumped Elements

T.M. Weller and L.P.B. Katehi. "A Millimeter-Wave Micromachined Lowpass Filter Using Lumped Elements." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 631-634.

A new approach is presented for realizing millimeter-wave micromachined lowpass filters using lumped elements. An efficient quasi-static analysis is utilized to design a Ka-band filter with 0.5 dB insertion loss and a rejection bandwidth from 30-125 GHz. The layout requires ten times less area than a comparable stepped-impedance implement ation.

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