

Abstracts

Micromechanical electrostatic K-band switches

S. Pacheco, C.T. Nguyen and L.P.B. Katehi. "Micromechanical electrostatic K-band switches." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1569-1572.

Two novel designs of micromechanical capacitive switches using serpentine and cantilever springs for low actuation voltage applications are reported. Both designs also incorporate an electrode situated above the switching structure in order to provide system stability. DC measurements indicate pull-in voltages of 14 and 16 V, with RF isolation of better than -30 dB up to 40 GHz.

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