Abstracts

A reconfigurable double-stub tuner using MEMS devices

K.L. Lange, J. Papapolymerou, C.L. Goldsmith, A. Malczewski and J. Kleber. "A reconfigurable double-stub tuner using MEMS devices." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 337-340 vol.1.

This paper presents a planar reconfigurable double stub tuner, that utilizes electrostatically activated MEMS switches. The tuner consists of a "4bit/spl times/4bit" digital capacitor bank and can match loads with real parts ranging from 5 to 108 /spl Omega/ and imaginary parts from -60 to 48 /spl Omega/ at 20 GHz. Simulated and measured results are presented.

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