Abstracts

DC-26 GHz MEMS series-shunt absorptive switches

Guan-Leng Tan and G.M. Rebeiz. "DC-26 GHz MEMS series-shunt absorptive switches." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 325-328 vol.1.

The design and performance of a wideband coplanar waveguide (CPW) DC-26 GHz MEMS absorptive switch on silicon substrate is presented. The absorptive switch utilizes novel DC-contact series and shunt fixed-fixed beam MEMS switches with 'dimples' at the contact area for improved contact resistance. An insertion loss of 0.5 dB or better is achieved from DC-26 GHz. The isolation is -40 dB at 5 GHz, -35 dB at 10 GHz and -25 dB at 26 GHz. These switches are useful in applications where good return loss is required in the isolation state.

❑ Return to main document.