

Abstracts

MEMS reconfigurable Vee antenna

Jung-Chih Chiao, Yiton Fu, Iao Mak Chio, M. DeLisio and Lih-Yuan Lin. "MEMS reconfigurable Vee antenna." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1515-1518 vol.4.

A new architecture for microelectromechanical system (MEMS) reconfigurable Vee-antennas was presented. The planar antenna structure can be dynamically reconfigured to steer the radiation beam or change the shape of the beam using electrically-controlled microactuators. The theoretical and experimental beam patterns were investigated for a 17.5-GHz MEMS Vee-antenna. The beam steering and shaping capabilities were also demonstrated.

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