Abstracts

Characterization of a multi-mode microstrip aperture for phased array applications

J. Sor, Y. Qian and T. Itoh. "Characterization of a multi-mode microstrip aperture for phased array applications." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 589-592.

An in-depth investigation of a multi-mode reconfigurable aperture controlled by pin diode switches is presented. A method for reducing the coupling across the pin diode switches is explored, yielding a noticeable improvement in the isolation characteristics between ports. Strategic feeding of the patch antenna ports results in significantly improved radiation patterns, making the system suitable for multi-modal multi-functional phased array operations.

❑ Return to main document.