

Abstracts

Millimeter-Wave Planar Slot Antennas with Dielectric Feeds

P. Yen, J.A. Paul and T. Itoh. "Millimeter-Wave Planar Slot Antennas with Dielectric Feeds." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 114-116.

Measurements have been made on various antenna configurations suitable for monolithic integration at millimeter-wave frequencies. The basic structure consists of a single slot dipole radiator etched on a dielectric substrate and combined with a beam lead detector diode.

Enhancement of the antenna directivity has been achieved through the use of dielectric rods oriented over the slot area. Addition of these rods has improved directivity up to 10 dB at 60 GHz.

[Return to main document.](#)