Abstracts

Dielectric Rod Antennas for Millimeter-Wave Integrated Circuits (Short Papers)

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The design of dielectric rod antennas for millimeter-wave integrated-circuit applications is described. The experimental investigation was initially performed for sealed models at Ku band and then developed at V band. A moderately high-gain alumina dielectric rod antenna that is entirely compatible with insular integrated circuits has been designed and tested. The antenna has been fabricated and integrated, as one of the system components, into short-range V-band transmitter and receiver modules. The measured gain was found to be 15.2 dB. Radiation characteristics are discussed.

❑ Return to main document.