Abstracts

A Novel Microstrip Antenna Using Alumina-Ceramic/Polyimide Multilayer Dielectric Substrate

K. Kamogawa, T. Tokumitsu and M. Aikawa. "A Novel Microstrip Antenna Using Alumina-Ceramic/Polyimide Multilayer Dielectric Substrate." 1996 MTT-S International Microwave Symposium Digest 96.1 (1996 Vol. I [MWSYM]): 71-74.

A novel microstrip antenna using an alumina-ceramic/polyimide multilayer dielectric substrate is presented. This configuration in which two different multilayer materials with much different permittivities and thicknesses are stacked together, can be used for designing antenna with selective substrate thickness, thus providing the optimum substrate thickness for operation frequencies. We fabricated prototypes of a 10-GHz-band antenna and an 18-GHz-band antenna, that achieve good return loss of less than-30 dB and a generaI bandwidth of 2.8 %.

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