

Abstracts

Space leakage of power from the slotline

J. Zehentner, J. Machac and P. Lorenz. "Space leakage of power from the slotline." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 1217-1220 vol.2.

In this paper we present the comprehensive dispersion characteristics of the slotline on thin and low permittivity substrate with a wide slotwidth comprising the bound and space leaky waves with even and odd electric field symmetry. The final design and measurement of the slotline antenna radiation are based on our analysis of this slotline. The antenna and its feeding circuit are designed assuming only the first odd space leaky wave radiation. Measured and calculated return losses and radiation patterns of the antenna are shown. Remarks are made on the applicability of the antenna.

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