Abstracts

Chip multilayer antenna for 2.45 GHz-band application using LTCC technology

Y. Dakeya, T. Suesada, K. Asakura, N. Nakajima and H. Mandai. "Chip multilayer antenna for 2.45 GHz-band application using LTCC technology." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1693-1696.

Utilizing the radiation from not only the antenna but GND plane of antenna-mounted terminals can contribute to reduce the size and weight of a chip antenna drastically without spoiling high performance. The optimization of the mounting conditions for the chip multilayer antenna is indispensable to realize higher performances. A wide bandwidth of more than 100 MHz (VSWR<2) is required for the 2.45 GHz applications such as Bluetooth, Home-RF and so on. This paper investigates optimization of the mounting conditions for the chip antenna. The chip multilayer antenna is a suitable antenna for 2.45 GHz-band applications under the optimized mounting conditions.

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