

Possibility of ultra fine isolator for portable phone

S. Takeda, Y. Kishimoto, H. Itoh and K. Ichikawa. "Possibility of ultra fine isolator for portable phone." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 479-482 vol. 1.

There exists a trade-off relationship between miniaturization of an isolator for portable phones and its specific bandwidth. In this paper, we introduce a new way to increase bandwidth over 13%, in spite of a reduction in garnet dimensions by one tenth, by the addition of LC impedance matching circuits. In the preliminary experiments, we obtained a 4 mm square isolator with 4.1% bandwidth at 836 MHz using LTCC technology.

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