Abstracts

Tunable active filters having multilayer structure using LTCC (Dec. 2001 [T-MTT])

K. Kageyama, K. Saito, H. Murase, H. Utaki and T. Yamamoto. "Tunable active filters having multilayer structure using LTCC (Dec. 2001 [T-MTT])." 2001 Transactions on Microwave Theory and Techniques 49.12 (Dec. 2001 [T-MTT] (Special Issue on 2001 International Microwave Symposium)): 2421-2424.

Two types of tunable filters have been developed at 400- and 800-MHz frequency bands, respectively. These filters have been fabricated with low-temperature co-fired-ceramics multilayer technologies assisted by varactor diodes. The filter size is 5.6 /spl times/ 5.6 /spl times/ 3.0 mm. Each filter has approximately 11% and 13% tuning range of frequency with a controlling voltage of 1-4 V, IL < 2.0 dB, and has an attenuation over 40 dB at fo /spl plusmn/ 30%, respectively. Temperature stability data is also discussed.

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