

A New Balanced-Unbalanced Type RF-Band SAW Filter

Y. Taguchi, S.-I. Seki, K. Onishi and K. Eda. "A New Balanced-Unbalanced Type RF-Band SAW Filter." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 417-420.

A new balanced-unbalanced type RF-band (950MHz) surface acoustic wave (SAW) filter for use in portable telephones is presented. This SAW filter has unbalanced input and balanced output terminals. These balanced-unbalanced type SAW filters having a pass-band at 950MHz were fabricated. The obtained results showed excellent characteristics such as low insertion loss, wide bandwidth, and small VSWR. Using the SAW filter, one can realize balanced-type RF circuits in portable telephones.

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