Abstracts

A New Balanced-Type RF-Band SAW Filter Using SAW Resonators

Y. Taguchi, S. Seki, K. Onishi and K. Eda. "A New Balanced-Type RF-Band SAW Filter Using SAW Resonators." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 891-894.

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

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