

Abstracts

Feedback-Controlled Compensation of Parameter Fluctuations of Mobile Radio SAW IF Channel Filters

C. Rheinfelder, G. Scholl, R. Weigel, C.C.W. Ruppel and P. Russer. "Feedback-Controlled Compensation of Parameter Fluctuations of Mobile Radio SAW IF Channel Filters." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 1205-1208.

Surface Acoustic Wave (SAW) filters with high sidelobe suppression, steep passband skirts and small chip sizes are key components for channel selection in modern mobile communication systems. These filters are fabricated on highly stable quartz substrates with precise photolithographic techniques. However, unavoidable fabrication tolerances, temperature drift and aging require some design reserve for achieving a specific filter characteristic. We report on a new receiver design which overcomes these drawbacks and does not demand for a design reserve anymore, thus improving the filter performance drastically. As an essential part of this receiver we developed a new SAW device.

 [Return to main document.](#)