Abstracts

Recent and future RF SAW technology for mobile communications

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Surface acoustic wave (SAW) technology has been widely applied to VHF/UHF radio communications to reduce the volume of transceivers. In this paper, not only recent new SAW devices but also future SAW technology to achieve much higher-performance devices are investigated. First, the latest status of 0.8-1.5-GHz SAW antenna duplexers for cellular radios and a miniature SAW-VCO are presented. Second, new SAWs with extremely high velocities and fine submicron process techniques are examined. Finally, a future SAW-based chip-type receiver is discussed.

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