

Abstracts

TV Tuning Systems with SAW Comb Filter

S. Matsu-Ura, K. Hazama and T. Murata. "TV Tuning Systems with SAW Comb Filter." 1981 Transactions on Microwave Theory and Techniques 29.5 (May 1981 [T-MTT] (Joint Special Issue on Surface-Acoustic-Wave Device Applications)): 434-439.

We have successfully developed two TV tuning systems which apply a SAW comb filter device in a new way. One is an automatic channel indicating system and the other is a frequency synthesizer. The SAW comb filter has comb peaks at the frequencies where channels are allocated. A channel number is recognized by counting the number of comb peaks which the local oscillator signal of a tuner goes through. The SAW comb filter has a minimum electrode width of 1 μm . It has four sets of IDT's to cover all TV channels, fabricated on a single chip.

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