Abstracts

Simulation of electromagnetic effects in SAW RF filters

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The characteristics of surface acoustic wave (SAW) filters are influenced by the electromagnetic properties of the immediate environment of the acoustically active structures. This paper presents a model for electromagnetic effects caused by the filter environment. Here, the filter environment comprises the setup surrounding the SAW structures, e.g., pads, bonds, pins, etc. The components, which are particularly relevant to the performance of SAW filters, are identified. Measurement and simulation are compared showing good agreement with the characteristics of the filter.

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