Abstracts

Aperture compensation technique for innovative design of ultra-broadband microstrip bandpass filter

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Aperture compensation technique is proposed for the enhancement of coupling strength in the parallel-coupled microstrip line (PCML). Through applying a so-called "short-open calibration" procedure in our full-wave MoM algorithm, this PCML is characterized by an equivalent J-inverter network. A novel bandpass filter with a single resonator is designed through its equivalent circuit topology. Both predicted and measured results show its ultra-broadband and multi-pole bandpass behavior with BW>70% and |S/sub 11/|<-15 dB.

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