Abstracts

Tunable RF filters using thin film barium strontium titanate based capacitors

A. Tombak, F.T. Ayguavives, J.-P. Maria, G.T. Stauf, A.I. Kingon and A. Mortazawi. "Tunable RF filters using thin film barium strontium titanate based capacitors." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1453-1456 vol.3.

Tunable lowpass and bandpass filters based on barium strontium titanate (BST) capacitors are reported. For the lowpass filter, 40% tunability was achieved at 9 V. Intermodulation distortion generated by the lowpass filters was also measured and predicted using a nonlinear model for the BST capacitors. The bandpass filter showed 45% tunability with an applied DC bias of 10 V.

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