

Temperature characteristics of combline resonators and filters

Hui-Wen Yao and A.E. Atia. "Temperature characteristics of combline resonators and filters." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1475-1478 vol.3.

Temperature characteristics of combline resonators and filters are investigated with a full wave simulation. For a given combline resonator, perfect temperature compensations may be achieved at two different resonant frequencies by adjusting the tuning screws. A 4 GHz 8-pole filter is designed and tested. Satisfactory temperature compensation is obtained.

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