Abstracts

Temperature stabilization of a lumped element circulator without an apparent compensating element

T. Miura, M. Hasegawa, H. Oh''hata and T. Kurahashi. "Temperature stabilization of a lumped element circulator without an apparent compensating element." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 1161-1164 vol.3.

An experiment has shown that a thermostable circulator can be fabricated by inserting a small capacitor between the ground and the ferrite. The analysis and the characteristics estimated using the element eigenvalues have confirmed the experimental result. A circulator based on the above thermostabilization has shown that the bandwidth was expanded more than twofold in the temperature range from -25/spl deg/C to 85/spl deg/C.

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