Abstracts

A 10 GHz Thin Film Lumped Element High Temperature Superconductor Filter

D.G. Swanson, Jr., R. Forse and B.J.L. Nilsson. "A 10 GHz Thin Film Lumped Element High Temperature Superconductor Filter." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1191-1193.

A narrow band thin film lumped element filter centered at 10 GHz has been fabricated using thallium-based high temperature superconductor technology. This filter does not suffer from the undesired spurious responses seen in thin film distributed filters using HTS technology. The measured filter has 2.5 dB insertion loss at band center, 3% bandwidth and is within 50 MHz of the desired center frequency. Measurements were made to confirm the broad spurious free stopbands from 1 GHz to 21 GHz.

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