

Abstracts

A New Dielectric Loaded Cavity for High Power Microwave Filtering

S. Moraud, S. Verdeyme, P. Guillon, Y. Latouche, S. Vigneron and B. Theron. "A New Dielectric Loaded Cavity for High Power Microwave Filtering." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 615-618.

This paper is devoted to high electrical performances filter realization for space application. A new form of new dielectric plate resonator shielded in a metallic cavity is presented. It is suitable for high power applications and presents the advantage to be easily manufactured. The finite element method is applied to design the resonators. Experimental 4 poles quasi elliptic filters have been realized to prove the efficiency of our new technique.

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