

Abstracts

A High Q Factor Microwave Cavity

R. Comte, S. Gendraud, S. Verdeyme, P. Guillou, C. Boschet and B. Theron. "A High Q Factor Microwave Cavity." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1535-1538.

A solution is proposed, using interfaces between low and high permittivity dielectric media to reduce considerably losses in classical metallic cavities, and so to obtain high performances microwave filters. An experimental confirmation of theoretical results is demonstrated by using two dielectric plates to increase the unloaded quality factor of a traditional metallic circular cavity excited on the TE₀₁₁ and TE₁₁₁ modes.

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