Abstracts

Periodic structures for original design of voluminous and planar microwave filters

B. Lenoir, D. Baillargeat, S. Verdeyme, P. Guillon, C. Zanchi and J. Puech. "Periodic structures for original design of voluminous and planar microwave filters." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1479-1482 vol.3.

The main objective of this paper is to demonstrate that a periodic structure can be used to design filters at millimeter frequency band. Theoretical analyses are performed applying the Finite Element Method (FEM) to design a volumic millimeter-wave filter at 35 GHz and a planar microwave filter at 6 GHz. The devices are built and tested at the IRCOM. Theoretical results are compared with success to experimental ones.

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