

Abstracts

Transversal filter using whispering gallery quarter cut resonators

V. Pommier, D. Cros, P. Guillon, A. Carlier and E. Rogeaux. "Transversal filter using whispering gallery quarter cut resonators." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1779-1782.

This paper presents a general method to synthesize a four-pole transversal filter composed of the banking of two two-pole filters. This method is here applied to the case of a transversal filter realized with quarter cut resonators acting on whispering gallery modes. Experimental realization at 20 GHz is presented to demonstrate the efficiency of our method.

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