

Abstracts

A Computer Aided Accurate Adjustment of Cellular Radio RF Filters

T. Ishizaki, H. Ikeda, T. Uwano, M. Hatanaka and H. Miyake. "A Computer Aided Accurate Adjustment of Cellular Radio RF Filters." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 139-142.

An accurate and speedy tuning algorithm of cellular radio filters is presented. From measured performance, a computer instructs you how much to trim the dielectric resonators. To reduce the optimization error and secure the good convergence, analytical considerations are taken to derive the proper expression of a resonator equivalent circuit. By using this method, it took a beginner only 5 minutes to adjust a five-resonator-filter.

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