Abstracts

Frequency Behavior of Post-Coupled TEM Comb-Line Resonators (Correspondence)

R.M. Kurzrok. "Frequency Behavior of Post-Coupled TEM Comb-Line Resonators (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.10 (Oct. 1968 [T-MTT]): 888-889.

In prior published work, the use of a transverse coupling post between adjacent TEM comb-line resonators was presented. Such a post acts as an electric shield reducing the electric coupling which is in phase opposition with the magnetic coupling. In this correspondence, additional experimental data will be presented on post-coupled comb-line resonators. It will be shown that a properly positioned coupling post can result in some useful couplings that are quite insensitive to filter center frequency. Similar coupling behavior has been previously obtained with optimally located coupling apertures in partitions between adjacent resonators.

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