Abstracts

Analysis and design of mass-producible cross-coupled, folded E-plane filters

E. Ofli, R. Vahldieck and S. Amari. "Analysis and design of mass-producible cross-coupled, folded E-plane filters." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1775-1778 vol.3.

Mass-producible, folded E-plane metal-insert filters with and without finite transmission zeros are introduced for the first time. The metallic inserts and the separating wall between the inserts can be accurately fabricated to /spl plusmn/1 /spl mu/m tolerances using electroforming techniques. Source-load coupling as well as (negative) coupling between resonators can be realized. The resulting filters are much shorter than traditional E-plane filters and show significantly improved slope selectivity.

❑ Return to main document.