

Abstracts

TEM Bandpass Filters Having Eighth-Wavelength Coupled Stubs

M.C. Horton. "TEM Bandpass Filters Having Eighth-Wavelength Coupled Stubs." 1977 MTT-S International Microwave Symposium Digest 77.1 (1977 [MWSYM]): 302-304.

A simple technique is presented for design of TEM-mode bandpass filters that use eighth-wavelength coupled stubs in their realization. The filters, either of two dual forms, are identical in theoretical performance to conventional planar parallel-coupled filters often used in stripline fabrication; and to the interdigital filter, or the equivalent quarter-wavelength shorted stubs spaced at quarter-wavelength intervals along a transmission line. The design method uses existing tabulated element values and a novel Kuroda transformation which has been previously used in the design of directional filters.

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