

Abstracts

Realization of an Exact 5-Pole Elliptic Function Filter Employing Dielectric Loaded Triple-Dual-Mode Cavity Structure

D. Siu. "Realization of an Exact 5-Pole Elliptic Function Filter Employing Dielectric Loaded Triple-Dual-Mode Cavity Structure." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 357-359.

A novel 5-pole symmetrical elliptic (with four transmission zeros) dielectric resonator filter has been built, using a cascade of a triple-mode and a dual-mode cavity and an unconventional resonant cross-coupling screw structure. Such a structure offers performance improvement over existing designs and makes it an attractive candidate for output multiplexer applications for future C-band satellite systems.

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