

Abstracts

Narrow Bandpass Filters Using the High-Q Cylindrical TE_{0ml} Resonator Modes

R.R. Bonetti and A.E. Williams. "Narrow Bandpass Filters Using the High-Q Cylindrical TE_{0ml} Resonator Modes." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 288-289.

The realization of optimum-response, narrow bandpass filters in high-Q TE_{0ml} cylindrical resonator modes is described. Experimental results are presented for 15- and 28-MHz bandwidth, 4-pole, elliptic function filters centered at 17.52 GHz using the TE₀₂₁ mode. Unloaded Q's of 25,000 have been achieved with cavity shaping to suppress TM_{1ml} mode degeneracy.

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