Abstracts

Quasi-Lowpass, Quasi-Elliptic Synmetric Filter

M.C. Horton. "Quasi-Lowpass, Quasi-Elliptic Synmetric Filter." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. I [MWSYM]): 129-132.

Levy has shown that a function developed by Acheiser/Zolotarev (LAZ) can yield a Iowpass response with we large reflection ripple near dc. Rhodes and Alseyab developed a novel method of obtaining even/odd mode impedances of a symmetrical network and applied their technique to low pass filters with one transmission zero (TZ) at infinity and all others at a specified stopband frequency. This paper combines outstanding features of these references to present a new quasi-lowpass, quasi-elliptic symmetric filter having LAZ passband response and finite stopband TZ's. Design advantages are pointed out and filter realizations are discussed.

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