

Abstracts

An Empirical Formula for the Design of Radial Line Filters (Correspondence)

M.A.R. Gunston. "An Empirical Formula for the Design of Radial Line Filters (Correspondence)." 1964 Transactions on Microwave Theory and Techniques 12.5 (Sep. 1964 [T-MTT]): 571-572.

The present wide interest in varactor parametric amplifiers and frequency multipliers has led to renewed interest in bandpass and band-stop filters suitable for microwave frequencies. In negative resistance amplifiers it is essential to prevent leakage of pump and idler frequencies into the signal circuit and in multipliers it is necessary to prevent outputs at unwanted higher harmonic frequencies. In many such instances simple radial-line band rejection filters are adequate, combining high reflection within the rejection band with low insertion loss at other frequencies.

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