

Abstracts

Contiguous Broadband Matching of Multiple Resonant Loads

J.D. Rhodes and M.J. Thornton. "Contiguous Broadband Matching of Multiple Resonant Loads." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 215-217.

The design theory for combining a number of loaded resonators to yield a prescribed return loss characteristic is presented with explicit formulae for the maximally flat case. Prototype element values are given for the equiripple case and the design of a broadband multi-channel frequency discriminator is used to demonstrate an application. Other applications include antenna arrays and broadband microwave amplifiers.

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