Abstracts

Synthesis of Non-Contiguous Diplexers Using Broadband Matching Theory

An approximate but highly accurate simple closed form solution for the element values of non-contiguous lowpass/highpass diplexers has been obtained using broadband matching theory. Excellent results are demonstrated by analysis of several diplexers of degree 10 having return loss of 26 dB. Suggestions are made for extending the method to other types of non-contiguous multiplexers.

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