Abstracts

Logarithmic-Periodic Contiguous-Channel Microwave Multiplexers

The issue pursued in this study is the applicability of logarithmic-periodic principles to the design of microwave multi-port networks. It is demonstrated, in particular, how such principles can be put to use in solving microwave multiplexing problems. Practicability of the approach is illustrated with the help of two five-channel contiguous-band multiplexer designs and an experimental realization of one of these circuits covering most of C- and X-band. The experimental circuit is believed to represent the first successfully implemented and reported logarithmic-periodic microwave multi-port circuit.

❏ Return to main document.