

Abstracts

A Computer Designed, 720 to 1 Microwave Compression Filter (1967 [MWSYM])

H.S. Hewitt. "A Computer Designed, 720 to 1 Microwave Compression Filter (1967 [MWSYM])." 1967 G-MTT International Microwave Symposium Program and Digest 67.1 (1967 [MWSYM]): 51-53.

An outgrowth of development work on rapid-scan receivers has been a broadband microwave linear-delay compression filter. This filter utilizes a folded-tape transmission line (FTML) between ground planes to achieve a time-bandwidth product (compression factor) of up to 1000 with bandwidths of 1 GHz or more. A filter has been constructed using the FTML technique for use in a Navy high-resolution radar techniques investigation; measurements on this filter are presented as experimental verification of the design technique.

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