

Abstracts

A MMIC Based 48 Tap X-Band Adaptive Transversal Filter (1994 Vol. II [MWSYM])

S. Bharj, D. Bechtle, G. Taylor, P. Jozwiak, S. Perlow, R. Camisa, D. Mawhinney, J. Lawson, A. Presser and F. Sterzer. "A MMIC Based 48 Tap X-Band Adaptive Transversal Filter (1994 Vol. II [MWSYM])." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 1159-1162.

An advanced adaptive transversal filter using 0.5 μm MMICs has been developed and its performance fully evaluated at X-band frequencies. The design objectives of the filter was to provide rapid frequency tuning, response programmability, and low phase distortion. The 48 tap filter was composed of 96 MMIC chips assembled in a MIC environment. Bandpass, Bandstop, and All-pass filter characteristics were successfully obtained by adjusting the tap weight.

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