Abstracts

Adaptive transversal preamplifier for high speed lightwave systems

A.P. Freundorfer, D.H. Choi and Y. Jamani. "Adaptive transversal preamplifier for high speed lightwave systems." 2001 Microwave and Wireless Components Letters 11.7 (Jul. 2001 [MWCL]): 293-295.

A nine-tap transversal preamplifier using cascode MESFETs in a distributed structure has been designed for pulse shaping data, AGC and group delay control in high speed lightwave systems. The circuit was fabricated in a microwave monolithic integrated circuit (MMIC) implementation using 0.8 /spl mu/m GaAs MESFET technology. The AGC capability was demonstrated. The best noise measured for this preamplifier was 15 pA//spl radic/(Hz).

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