

Abstracts

An integrated FBAR filter and PHEMT switched-amp for wireless applications

H. Morkner, R. Ruby, M. Frank and D. Figueredo. "An integrated FBAR filter and PHEMT switched-amp for wireless applications." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1393-1396 vol.4.

Amplifiers and filters must work together in modern wireless systems. Traditional technology does not allow these two functions to be combined effectively. However, this paper demonstrates that the technology does exist to integrate filters and amplifiers into one small package. This paper demonstrates that two switched-amplifiers and a FBAR filter can be integrated into a small glass metal SO-8 package. The combination provides 23 dB gain over a 100 MHz bandwidth, 35 dB rejection out of band. This is the only integrated FBAR filter with dual amplifier known to the authors to ever be reported.

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