

Abstracts

A Realization of a GaAs FET Microwave Active Filter (Short Papers)

S.E. Sussman-Fort. "A Realization of a GaAs FET Microwave Active Filter (Short Papers)." 1990 *Transactions on Microwave Theory and Techniques* 38.10 (Oct. 1990 [T-MTT]): 1524-1526.

The traditional audio and video frequency domains for active filters are rapidly expanding to include the microwave regime as well. A methodology for microwave active filter design has been presented in [1], and we illustrate here a practical implementation of a network discussed in that work. The prototype accurately realizes a second-degree band-pass response with a center frequency of 6 GHz and a pole q of 2.5. The circuit represents a building block suitable for use in the cascade realization of higher order filters. The filter section was constructed in hybrid form with lumped components and employs two NEC 900100 GaAs FET's.

[Return to main document.](#)