

Abstracts

Optical Control of Microwave Active Band-Pass Filter Using MESFETs

Y. Yamamoto, K.-I. Kawasaki and T. Itoh. "Optical Control of Microwave Active Band-Pass Filter Using MESFETs." 1991 MTT-S International Microwave Symposium Digest 91.2 (1991 Vol. II [MWSYM]): 655-658.

A semiconductor laser tuned active band-pass filter is developed using a gate-to-source capacitance of a MESFET for tuning. Another MESFET is used in the circuit to provide a negative resistance to increase the tank-circuit Q-value. Tuning range of 257 MHz was obtained for a two-pole filter in X-band.

[Return to main document.](#)