

# Abstracts

## Picosecond MODFET IC Pulse Sharpener

---

*M.S. Shakouri, A. Black, D.M. Bloom, J. Perdomo, H. Kondoh and H. Vifian. "Picosecond MODFET IC Pulse Sharpener." 1993 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 93.1 (1993 [MCS]): 79-82.*

We have fabricated a monolithic synthetic transmission line pulse sharpener using a high power .25  $\mu\text{m}$  InGaAs/GaAs MODFET IC process. This circuit sharpens a dc-to-5 GHz input to a pulse of at least 5 psec, 2V output transition. This first implementation of a pulse sharpening circuit in a MODFET IC process demonstrates the broadband capabilities of this technology for picosecond pulse sharpening applications.

 [Return to main document.](#)