

# Abstracts

## High Isolation 1-20 GHz MMIC Switches with On-Chip Drivers

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*J.A. Eisenberg, T.B. Chamberlain and L.R. Sloan. "High Isolation 1-20 GHz MMIC Switches with On-Chip Drivers." 1989 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 89.1 (1989 [MCS]): 41-45.*

MMIC SPST and SPDT reflective GaAs MESFET switches with on-chip TTL compatible drivers have achieved 50 dB isolation over the 1-20 GHz range. This is the highest isolation yet reported for MMIC switches covering this bandwidth. Insertion loss was less than 2.5 dB for the SPST switch and less than 2.7 dB for the SPDT switch. The MMIC switches were designed for convenient use and require only a single +12 volt power supply and external dc blocking capacitors. Switching time for either device was less than 15 nanoseconds. Good agreement was obtained between measured and simulated results.

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