

## Monolithic Integration of an X-Band Circulator with GaAs MMICs

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*J.D. Adam, H. Buhay, M.R. Daniel, M.C. Driver, G.W. Eldridge, M.H. Hanes and R.L. Messham. "Monolithic Integration of an X-Band Circulator with GaAs MMICs." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 97-98.*

Monolithic integration of circulators with GaAs MMICs offers the potential of lower cost, reduced size, improved over the present hybrid approaches. Development of MMIC compatible ferrite film deposition techniques, device design and fabrication will be described. Results on ferrite film circulators deposited on Si and GaAs substrates will be presented and integration with FETs discussed.

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