

# Abstracts

## Production Results of X-Band GaAs MMIC 5-Bit Phase Shifters

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*F. Ali, S. Mitchell, A. Murphy, A. Adar, P. Ho and A. Podell. "Production Results of X-Band GaAs MMIC 5-Bit Phase Shifters." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. 1 [MWSYM]): 633-636.*

The measured results of the production of high performance, highly reproducible GaAs monolithic 5-bit phase shifters for phased array system applications are presented. Very good DC (> 90%) and RF (75%-80%) yields have been achieved on an X-Band phase shifter from the test results of thousand of these ICs. The performance correlation of these phase shifters have been verified between wafer level results and assembled module level data. To our knowledge, this is the first monolithic single chip small size (96 mils x 48 mils) five-bit phase shifter in the X-band to achieve over 70% total production yield.

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