

Abstracts

A Single Chip C-Band GaAs Monolithic Five Bit Phase Shifter with on Chip Digital Decoder

F. Ali, S. Mitchell, J. Mogri and A. Podell. "A Single Chip C-Band GaAs Monolithic Five Bit Phase Shifter with on Chip Digital Decoder." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1235-1237.

A single chip C-band GaAs monolithic five bit phase shifter with on-chip digital decode circuitry measuring 96mils x 48mils has been developed. This phase shifter has an RMS phase error of less than five degrees across 5.5-8.5 GHz band with greater than 60% RF yield. An application of this phase shifter as a serrodyne frequency translator is also presented.

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