

# Abstracts

## A Fast Switching, Low Loss, Low Drive, 12 GHz PIN Phase Shifter

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*B. Glance and W. Amitay. "A Fast Switching, Low Loss, Low Drive, 12 GHz PIN Phase Shifter." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 232-234.*

A 4-bit PIN microstrip phase shifter switching in 1 ns/bit with only 9 mW/bit of driving power is described. The phase shifter is combined with its TTL-compatible driver in a single compact package. RF insertion loss is  $1.6 \text{ dB} \pm 0.2 \text{ dB}$  for the 16 phase states over the 11.7 - 12.2 GHz band. Forty-two phase shifter modules have been built. A linear phase array employing these modules has been constructed.

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