

# Abstracts

## V-band single chip, direct carrier BPSK modulation transmitter with integrated patch antenna (1998 Vol. I [MWSYM])

*G. Passiopoulos, S. Nam, A. Georgiou, A.E. Ashtiani, I.D. Robertson and E.A. Grindrod. "V-band single chip, direct carrier BPSK modulation transmitter with integrated patch antenna (1998 Vol. I [MWSYM])." 1998 MTT-S International Microwave Symposium Digest 98.1 (1998 Vol. I [MWSYM]): 305-308.*

A single chip V-band pHEMT technology transmitter with wideband direct BPSK modulation and on-chip dual band patch antenna is reported. The transmitter features, 10% bandwidth electronic tuning range, substantial power output, injection locking capability, low power consumption and good patch antenna radiation characteristics. As such it is well suited to wireless digital communications systems as well in radar and phased array applications.

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