

Abstracts

V-band single chip, direct carrier BPSK modulation transmitter with integrated patch antenna (1998 [RFIC])

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 [RFIC])." 1998 Radio Frequency Integrated Circuits (RFIC) Symposium 98. (1998 [RFIC]): 231-234.

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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