

K through Ka-Band Driver and Power Amplifiers

K.M. Simon, R.M. Wohler, J.P. Wendler, L.M. Aucoin and D.W. Vye. "K through Ka-Band Driver and Power Amplifiers." 1996 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 98. (1996 [MCS]): 29-32.

First pass low, medium, and high power MMIC amplifiers operating over the 17 to 40 GHz band have been demonstrated. The low power driver amplifier delivers 8 dBm output power with 8 dB associated gain and the medium power driver amplifier delivers a minimum of 13 dBm with 8 dB associated gain across the band. The high power amplifier delivers 24 dBm output power from 17 to 35 GHz and greater than 22 dBm from 35 to 40 GHz with a minimum of 17.5 dB associated gain. The low power driver amplifier and the high power amplifier were combined to demonstrate a minimum of 22.5 dBm output power with greater than 24.5 dB associated gain across the 17 to 40 GHz band.

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