

Abstracts

A broadband, push-pull power MMIC operating at K/Ka-band frequencies

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A 2-stage, push-pull power MMIC operating over the 20 to 36 GHz band is presented. With a P_{sub 1dB} and P_{sub SAT} of 0.51 W and 0.78 W respectively, this IC has demonstrated a 1-dB power bandwidth, at a minimum output power of 28 dBm, that extends from 22 to 31 GHz. This result represents the highest combination of output power and bandwidth reported from a power MMIC operating at K/Ka-band frequencies. The size of this IC with integrated baluns is a compact 1.5 \times 3.75 mm \times 2/.

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