

Abstracts

A compact S-band MMIC high power amplifier module

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This paper shows an S-band MMIC power amplifier (PA) and an MMIC based solid state power amplifier (SSPA) module for pulse radar applications. The MMIC PA achieves 43.3 dBm minimum output power with better than 40% power added efficiency (PAE) over 2.6 to 3.3 GHz frequencies. The design and performance of a compact MMIC based SSPA module is also reported. The SSPA module composed of four MMIC PAs achieves 48.3 dBm minimum output power with 32% PAE, over 2.7 to 3.1 GHz frequencies.

 [Return to main document.](#)