

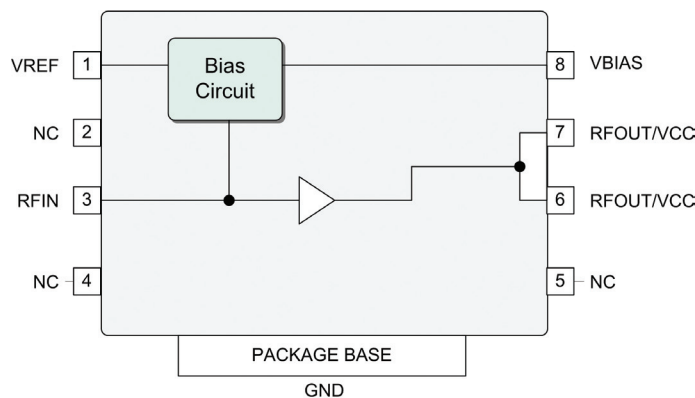
RFMD®

RFPA3807/RFPA3809 1/4W and 1W Power Amplifiers for Applications to 2.7GHz



The RFPA3807 and RFPA3809—both GaAs HBT power amplifiers—achieve high OIP3 with low bias current over a range of supply voltages from 3.6 to 6.0V. The devices are ideally suited for linear driver applications employing high peak-to-average ratio (PAR) modulation. The low noise figure, less than 3.5dB, makes them an ideal solution for second- or third-stage low noise amplifiers (LNAs) for high-performance designs. With simple external matching, these devices can achieve good performance over a range of frequencies from 700 to 2700MHz. The RFPA3807 and RFPA3809 come in plastic SOIC-8 packages.

Freq (MHz)	Noise Figure	SS Gain (dB)	OIP3 (dBm)	P1dB (dBm)	V _{cc} (V)	I _{ccq} (mA)	Part Number
880	3.5	15.8	46.0	25.0	5.0	90	RFPA3807
2140	2.9	13.7	42.0	24.0	5.0	90	RFPA3807
880	3.9	17.0	49.0	29.0	5.0	275	RFPA3809
2140	3.1	12.4	47.0	29.0	5.0	275	RFPA3809



FEATURES

- High IP3 with I_{ccq} <90mA RFPA3807, 275mA RFPA3809
- Low noise figure for later-stage LNA applications
- Low-current power down function
- Adjustable bias current
- Flexible supply voltages from 3.6 to 6.0V

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