

## Features:

- 13 dB Typical Gain
- 28.5 dBm Typical P1dB
- EVM = 2.5% at 22 dBm Pout
- Flange Package Prematch
- Surface Mount Hermetic Package



## Description:

The WPS-252717-82 is a low cost linear power amplifier designed to meet the requirements for commercial 802.16 WiMax, 802.11 a/n WLAN, Wireless Communications, Telecomm Infrastructure applications.

## Electrical Specifications:

- at 25°C, Vdd = 7.5 V, Zo = 50 ohms

SYMBOL	PARAMETERS	Min	Typical	Max	Unit
Freq.	Frequency Range	2.5		2.7	GHz
SSG	Small Signal Gain		13.0		dB
P1 dB	Pout at 1 dB Comp Point		+28.5		dBm
Pout	<2.5% EVM 52 carriers		22		dBm
IP3	Third-order Intercept		45		dBm
Idd	DC Current		300		mA
EVM @ 34dBm	All Carriers		-31.84		dB
EVM @ 34dBm	Data Carriers		-31.78		dB
EVM @ 34dBm	Pilot Carriers	-32.62	-32.49	-32.36	dB
IQ Offset		--58.58	-58.13	-57.57	dB
Burst Power			34		dBm
Crest Factor		8.5	8.5	8.5	dB

## Absolute Maximum Ratings:

Maximum Bias Voltage	8.0 V
Maximum Continuous RF Input Power	+18 dBm
Maximum Peak Input Power	+20 dBm
Maximum Case Operating Temperature	+70 °C
Maximum Storage Temperature	- 65 to + 150 °C



