

## Features:

- Design for WLAN, WiMAX and MMDS
- 13 dB Typical Gain
- 28.5 dBm Typical P1dB
- EVM < 2.5% at 22 dBm Pout
- Fully Matched to 50 Ohms
- Single Positive Bias
- Surface Mount 82 Package



## Description:

The WPS-242717-82 is a low cost high linearity modular amplifier designed to meet the ultra-linear transmitter driver requirements for 802.16 WiMax linear driver applications and commercial 2G, 2.5G, 3G, GSM, TDMA, EDGE, UMTS, WCDMA, CDMA2000, and TD-SCDMA applications. Key advantages are low EVM performance for 802.16 WiMax applications and low intermodulation performance for multi-carrier and CDMA systems together with exceptionally low input/output return loss for ease of integration.

## Electrical Specifications:

- at 25°C, Vdd = 7.5 V, Zo = 50 ohms

SYMBOL	PARAMETERS	Min	Typical	Max	Unit
Freq.	Frequency Range	2.45		2.7	GHz
SSG	Small Signal Gain		13.0		dB
VSWR	Input and Output		2.0:1		-
P1 dB	Pout at 1 dB Comp Point		+28.5		dBm
EVM	Error Vector Magnitude @ 22 dBm, 256 carrier, 64 QAM		2.5		%
IP3	Third-order Intercept		45		dBm
Ids	DC Current		330		mA
Rth	Thermal Resistance junction to case		28		°C/W

## Absolute Maximum Ratings:

Maximum Bias Voltage	8.0 V
Maximum Continuous RF Input Power	+27 dBm
Maximum Peak Input Power	+30 dBm
Maximum Case Operating Temperature	+70 °C
Maximum Storage Temperature	- 65 to + 150 °C



