

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.

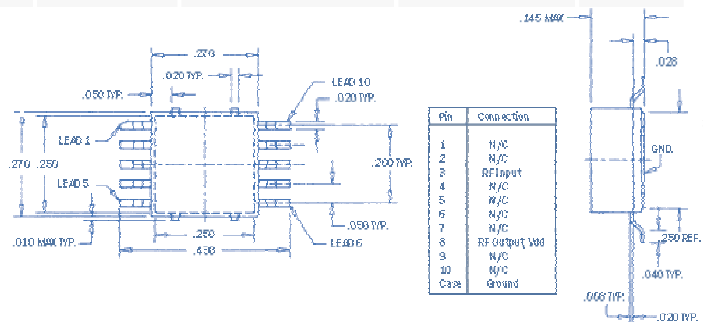
Electrical Specifications:

- at 25°C, Vdd = 7.5 V, Zo = 50 ohms

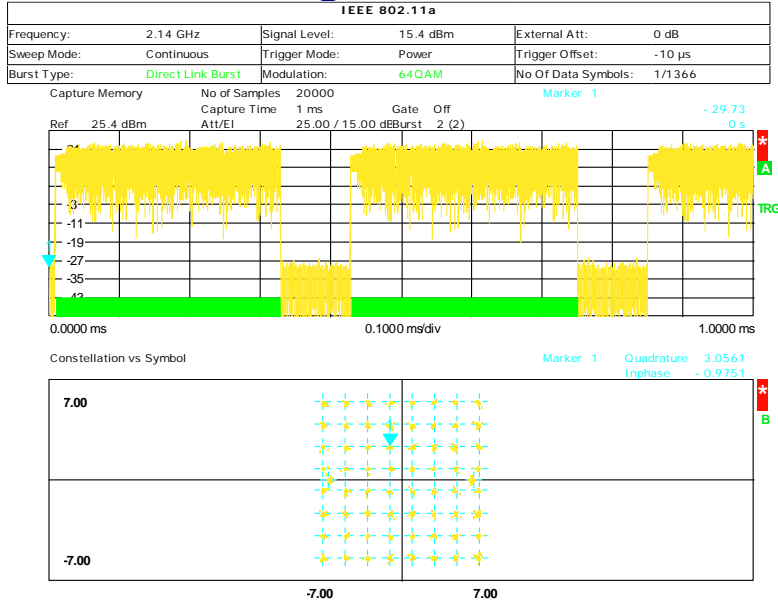
SYMBOL	PARAMETERS	Min	Typical	Max	Unit
Freq.	Frequency Range	2.5		2.7	GHz
SSG	Small Signal Gain		13.0		dB
P1 dB	Pout at 1 dB Comp Point		+28.5		dBm
Pout	<2.5% EVM 52 carriers		22		dBm
IP3	Third-order Intercept		45		dBm
Idd	DC Current		300		mA
EVM @ 34dBm	All Carriers		-31.84		dB
EVM @ 34dBm	Data Carriers		-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



22 dBm average 802.11 for 2% EVM



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Date: 1.SEP.2004 17:55:30

IEEE 802.11a			
Frequency:	2.14 GHz	Signal Level:	15.4 dBm
Sweep Mode:	Continuous	Trigger Mode:	Power
Burst Type:	Direct Link Burst	Modulation:	64QAM
		External Att:	0 dB
		Trigger Offset:	-10 μ s
		No Of Data Symbols:	1/1366

Result Summary						
No. of Bursts	*					
	Min	Mean	Limit	Max	Limit	Unit
EVM All Carriers	1.91	1.92	5.62	1.92	5.62	%
	-34.37	-34.34	-25.00	-34.32	-25.00	dB
EVM Data Carriers	1.92	1.93	5.62	1.93	5.62	%
	-34.33	-34.30	-25.00	-34.27	-25.00	dB
EVM Pilot Carriers	1.78	1.79	39.81	1.81	39.81	%
	-35.01	-34.92	-8.00	-34.83	-8.00	dB
IQ Offset	-56.89	-56.54	-15.00	-56.21	-15.00	dB
Gain Imbalance	-0.04	-0.04		-0.04		%
	-0.00	-0.00		-0.00		dB
Quadrature Error	0.12	0.13		0.13		°
Center Frequency Error	-192.72	-192.85	\pm 42800	-192.99	\pm 42800	Hz
Symbol Clock Error	0.19	0.23	\pm 20	0.26	\pm 20	ppm
Burst Power	15.57	15.57		15.57		dBm
Crest Factor	8.49	8.50		8.50		dB

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