

## Features:

- +48 dBm Typical IP3
- 13 dB Typical Gain
- Surface Mount Package
- Single Positive Bias
- +29 dBm Typical P1 dB



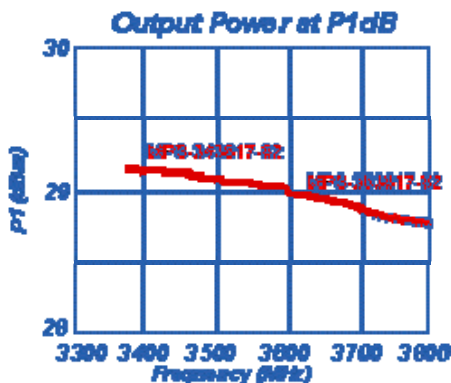
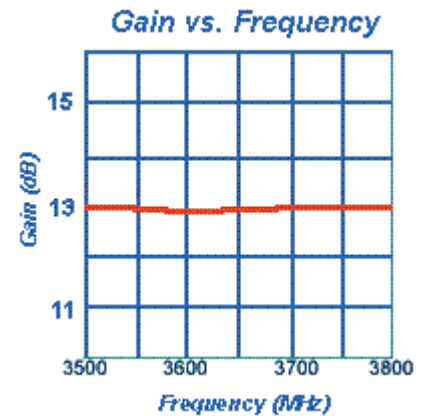
## Description:

The MPS-363817-82 is a high quality modular amplifier designed to meet the ultra-linear transmit requirements of wireless local loop (WLL) applications.

## Electrical Specifications:

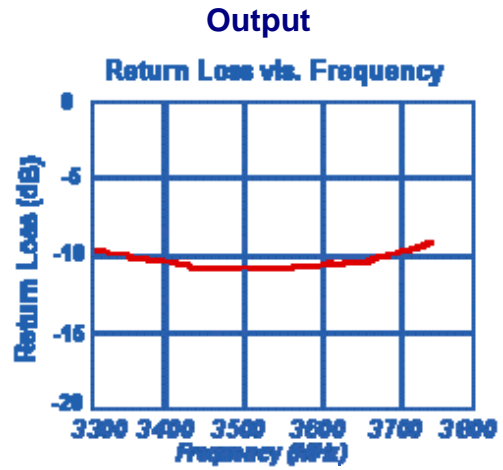
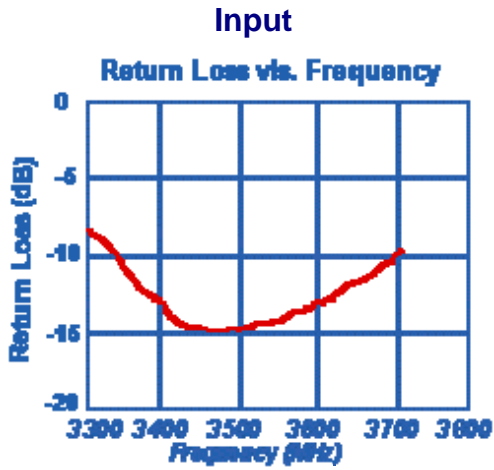
- *Electrical at 25°C, Vdd = 7.5 V, Zo = 50 ohms*

SYMBOL	PARAMETERS	Min	Typical	Max	Unit
Freq.	Frequency Range	3600		3800	MHz
SSG	Small Signal Gain	12	13		dB
P1 dB	P out at 1 dB Compression Point		+29.0		dBm
IP3	Third-Order Intercept	+44.0	+48.0		dBm
VSWR	Input/Output VSWR		2.0:1/2.2:1		
GOF	Gain Variation over Frequency		± 0.25	±0.50	dB
GOT	Gain Variation over Temperature		- 0.01		dB/°C
I <sub>dd</sub>	DC Current		350	420	mA

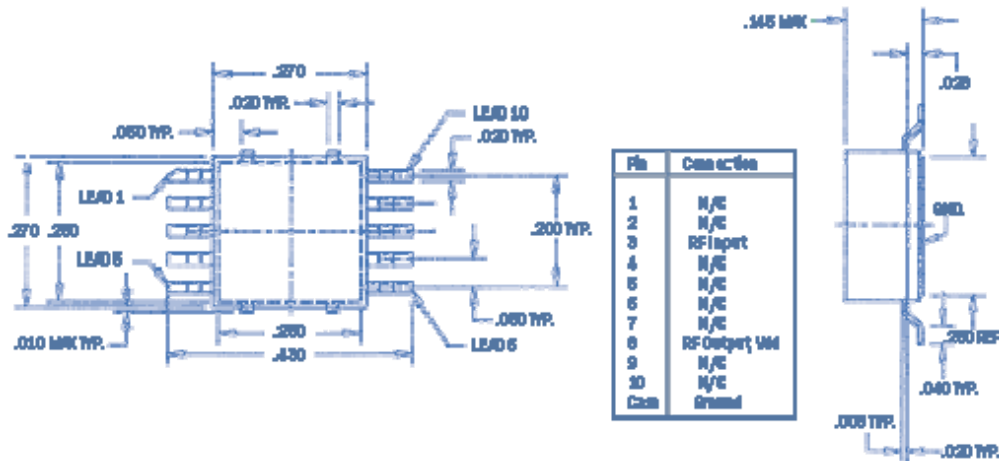


## Absolute Maximum Ratings

Maximum Bias Voltage	8.0 V
Maximum continuous RF Input Power	950 mW
Maximum Peak Input Power	1400 mW
Maximum Case Operating Temperature	+ 85 °C
Maximum Storage Temperature	- 65 °C to + 150 °C



### Outline Diagrams



### Application Circuit

