

## Features:

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



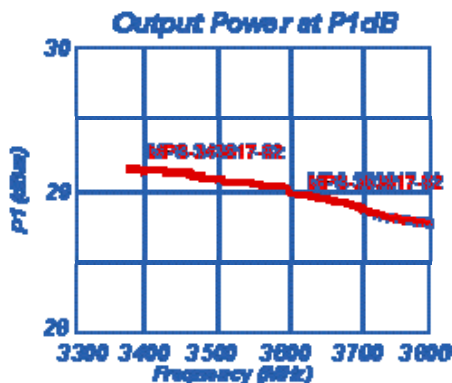
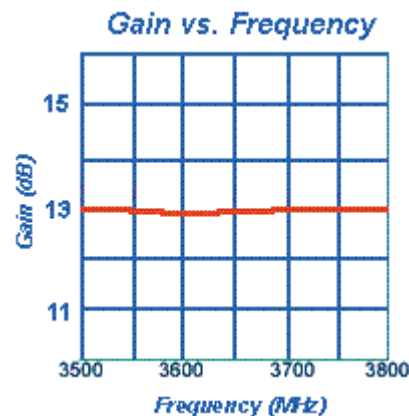
## Description:

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*

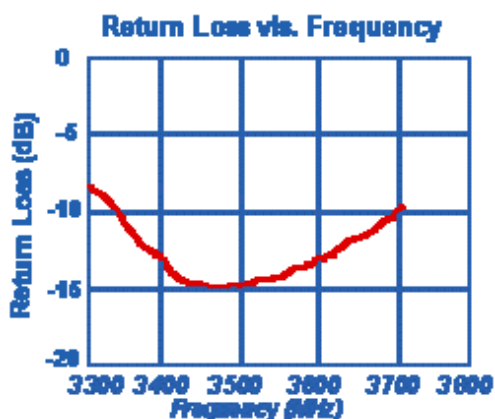
| SYMBOL | PARAMETERS                      | Min   | Typical     | Max   | Unit  |
|--------|---------------------------------|-------|-------------|-------|-------|
| Freq.  | Frequency Range                 | 3600  |             | 3800  | MHz   |
| SSG    | Small Signal Gain               | 12    | 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 |
| Idd    | DC Current                      |       | 350         | 420   | mA    |



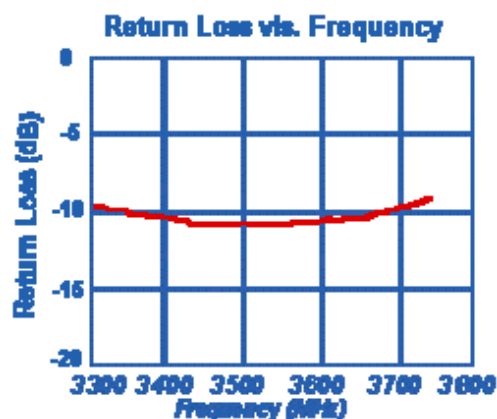
## Absolute Maximum Ratings

|                                    |                     |
|------------------------------------|---------------------|
| 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 |

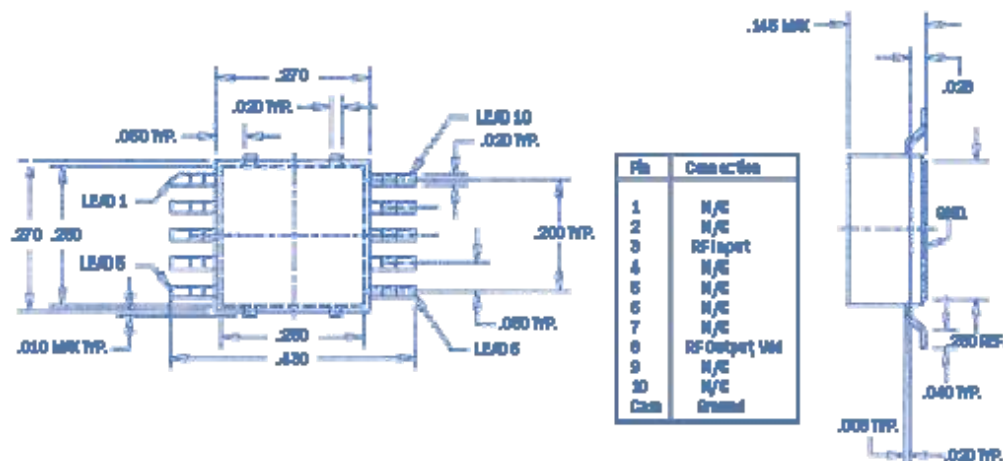
## Input



## Output



## Outline Diagrams



## Application Circuit

