



## DESCRIPTION

AMCOM's AM343635SF-2H is a 2-stage power amplifier in aluminum housing with input and output SMA connectors. It has 18dB gain, 36dBm output power over the 3.4 to 3.6GHz Band.

## FEATURES

- High output power, P1dB =36dBm
- Fully matched 50 Ohms input/output impedance
- High linearity
- Output detector

## APPLICATIONS

- Wireless Internet Access
- Wireless Local Loop
- Two Way Radio



## ELECTRICAL PERFORMANCE ( $V_{ds} = 7V$ , $I_{ds} = 2.2A$ , $T_a = 25^\circ C$ )

Parameters	Specifications	Typical Data
Frequency Range	3.4 – 3.6GHz	3.4 – 3.6GHz
Pout @ 1dB	> 35dBm	36dBm
Psat	> 36dBm	37dBm
IP3	> 43dBm	45dBm
Second Harmonic at P1dB	< -33dBc	-35dBc
Small Signal Gain	> 17dB	18dB
Gain Flatness	$\pm 0.4$ dB	$\pm 0.25$ dB
Noise Figure	< 5dB	4dB
VSWR	< 2	1.9
Detector Dynamic Range	> 20dB	25dB
Positive Supply	+ 7 Volts	+ 7 Volts
Positive Current	< 2.5A	2.1A
Negative Supply	- 2 Volts	- 2 Volts
Negative Current	< 30mA	25mA
Operating Temp	-10 to 85°C	-10 to 85°C

**ABSOLUTE MAXIMUM RATING**

Parameters	Symbol	Rating
Drain source voltage	$V_{ds}$	8V
Gate source voltage	$V_{gs}$	-5V
Drain source current	$I_{ds}$	2.5A
Continuous dissipation	$P_t$	15W
Channel temperature	$T_{ch}$	150°C
Storage temperature	$T_{sto}$	-32°C to +85°C

**PACKAGE OUTLINE**

