



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	± 0.4 dB	± 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

