

DESCRIPTION

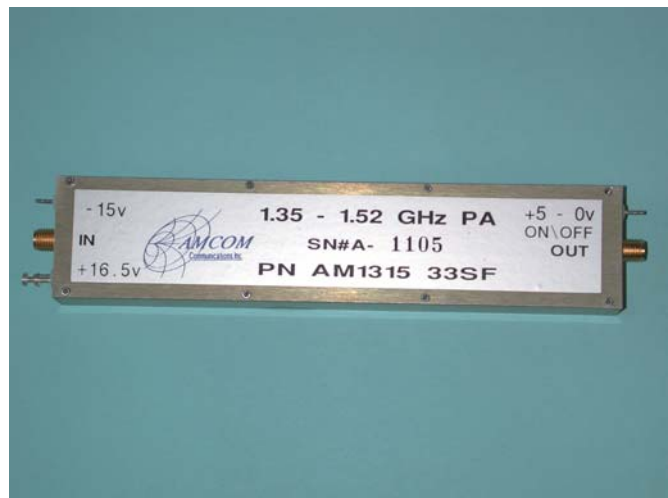
AMCOM's AM131535SF-2H-V2 is a 2-stage power amplifier in aluminum housing with input and output SMA connectors. It has 31dB gain and 35dBm output power over the 1.35 to 1.52 GHz Band.

FEATURES

- High output power, P1dB =35dBm
- Fully matched 50 Ohms input/output impedance
- High linearity

APPLICATIONS

- Wireless Internet Access
- Wireless Local Loop
- Two way radio



ELECTRICAL PERFORMANCE ($V_{dd} = 16.5V$, $I_{dd} = 1.5A$, $T_a = 25^\circ C$)

Parameters	Specifications	Typical Data
Frequency Range	1.350 – 1.517 GHz	1.350 – 1.517 GHz
P1dB	> 33dBm	35dBm
IM3 at Pout=27.5 dBm	< -35 dBc	< -40 dBc
IM5 at Pout=27.5 dBm	< -50 dBc	< -60 dBc
2nd & 3rd Harmonic at 27.5dBm	< -35dBc	< -40dBc
Small Signal Gain	> 29 dB	31.0 dB
Gain Flatness	± 1.5 dB	± 1.0 dB
Noise Figure	< 8 dB	7 dB
Input Return Loss	> 12 dB	15 dB
Output Return Loss	> 17 dB	20 dB
Positive Supply	+ 16.5 Volts	+ 16.5 Volts
Positive Current	< 1.6 A	1.5 A
Negative Supply	- 15 Volts	- 15 Volts
Negative Current	< 450 mA	400 mA
ON/OFF Control	0V for OFF, +5V for ON	0V for OFF, +5V for ON
Operating Temp	-20 to 55°C	-20 to 55°C

ABSOLUTE MAXIMUM RATING

Parameter	Symbol	Rating
Positive voltage source	V_{dd}	18 V
Negative voltage source	V_{gg}	-20 V
Positive current source	I_{dd}	2.0 A
Negative current source	I_{gg}	500mA
Continuous dissipation	P_t	35 W
Channel temperature	T_{ch}	150°C
Storage temperature	T_{sto}	-30°C to +125°C

PACKAGE OUTLINE

