

DESCRIPTION

AMCOM's AM304233SF-2H is a 2-stage power amplifier in aluminum housing with input and output SMA connectors. It has 16dB gain, 33dBm output power over the 3.0 to 4.2 GHz band.

FEATURES

- High output power, P1dB =33dBm
- Fully matched 50 Ohms input/output impedance
- High linearity

APPLICATIONS

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



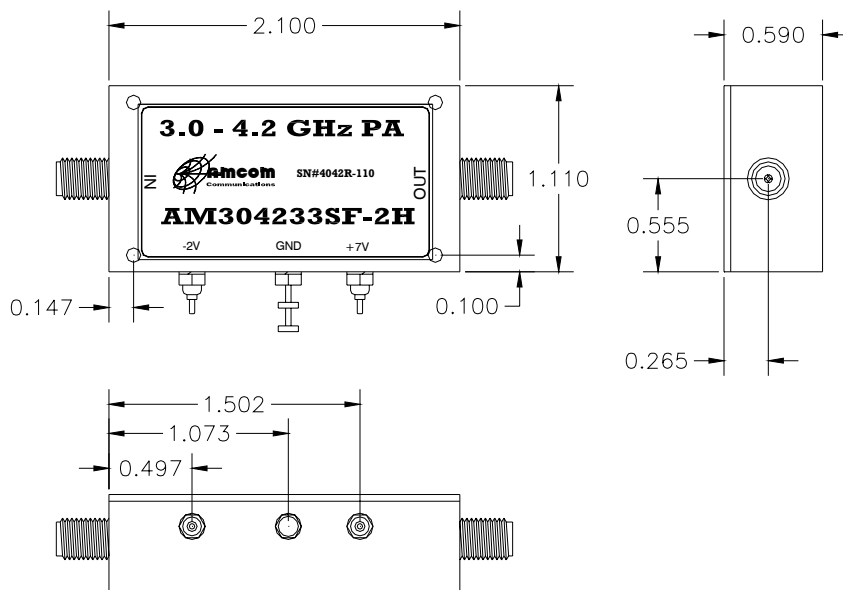
ELECTRICAL PERFORMANCE ($V_{ds} = 7V$, $I_{ds} = 1.2A$, $T_a = 25^\circ C$)

Parameters	Specifications	Typical Data
Frequency Range	3.2 – 3.8 GHz	3.0 – 4.2 GHz
Pout @ 1dB	> 31 dBm	33 dBm
Psat	> 32 dBm	34 dBm
IP3	> 40 dBm	43 dBm
Small Signal Gain	> 14 dB	16 dB
Gain Flatness	± 1.0 dB	± 0.5 dB
Noise Figure	< 7.5 dB	6 dB
Input Return Loss	> 10 dB	12 dB
Output Return Loss	> 8 dB	10 dB
Positive Supply	+ 7 Volts	+ 7 Volts
Negative Supply	- 2 Volts	- 2 Volts
Positive Current	< 1.4 A	1.0 A
Negative Current	< 20 mA	10 mA
Group Delay	< 0.4 ns	0.2 ns
Operating Temp	-20 to 70°C	-20 to 70°C

ABSOLUTE MAXIMUM RATING

Parameter	Symbol	Rating
Drain source voltage	V_{ds}	8 V
Gate source voltage	V_{gs}	-5 V
Drain source current	I_{ds}	1.5 A
Continuous dissipation	P_t	10 W
Channel temperature	T_{ch}	150°C
Storage temperature	T_{sto}	-30°C to +125°C

PACKAGE OUTLINE





GaAs MMIC Power Amplifier
AM304233SF-2H DATASHEET
V2 October 2007
