

DESCRIPTION

AMCOM's AM404233SF-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 4.0 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



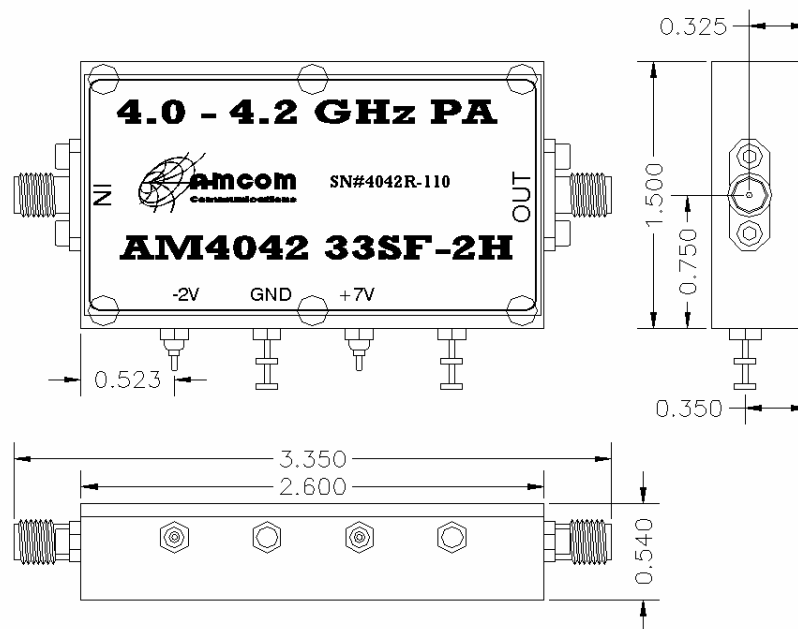
ELECTRICAL PERFORMANCE ($V_{ds} = 7V$, $I_{ds} = 0.9A$, $T_a = 25^{\circ}C$)

Parameters	Specifications	Typical Data
Frequency Range	4.0 – 4.2 GHz	4.0 – 4.2 GHz
Pout @ 1dB	> 32 dBm	33.0 dBm
IP3	> 40 dBm	45 dBm
Small Signal Gain	> 14 dB	16 dB
Gain Flatness	± 1.0 dB	± 0.7 dB
Noise Figure	< 7.5 dB	6.5 dB
Input Return Loss	> 10 dB	13 dB
Output Return Loss	> 9 dB	11 dB
Positive Supply	+ 7 Volts	+ 7 Volts
Negative Supply	- 2 Volts	- 2 Volts
Positive Current	< 1.5 A	0.9 A
Operating Temp	-20 to 85°C	-20 to 85°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}	1.3 A
Continuous dissipation	P_t	10 W
Channel temperature	T_{ch}	150°C
Storage temperature	T_{sto}	-55°C to +135°C

PACKAGE OUTLINE





GaAs MMIC Power Amplifier
AM404233SF-2H
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