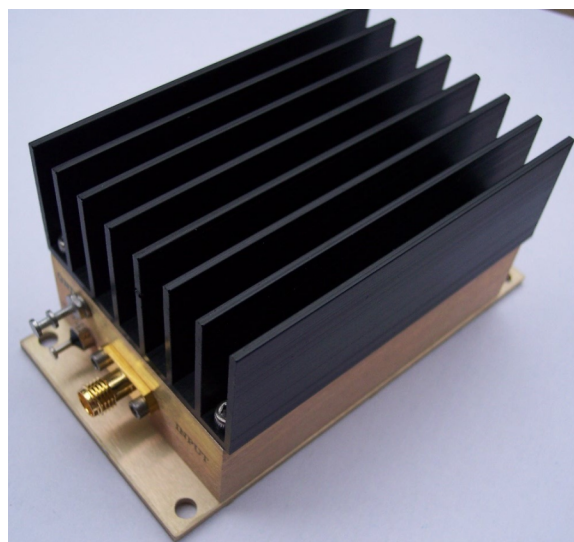


HD24867

2190-2210MHz 2W RF Power Amplifier

Features

- Frequency Range: 2190-2210MHz
- Gain: 40dB
- P_{out} : +33dBm
- IP3: +42dBm
- Noise Figure: 2.5dB
- Efficiency: 33%
- DC Power: 9V
- SMA Connector



Description

HD24867 is a 2Watt (+33dBm) output RF Power Amplifier operating from single 9V DC power supply with frequency from 2190MHz to 2210MHz.

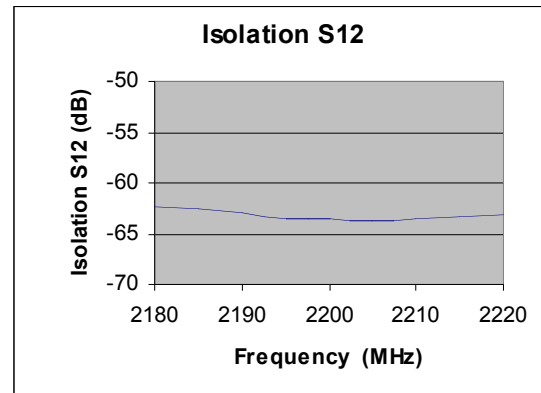
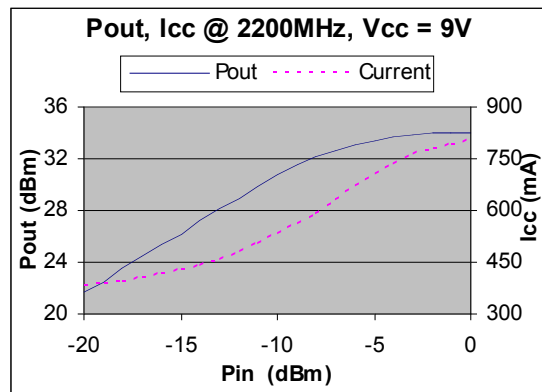
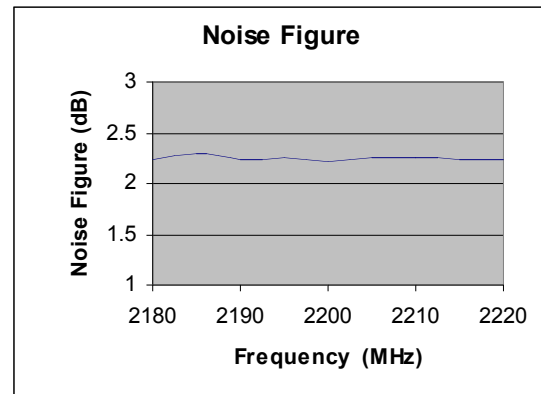
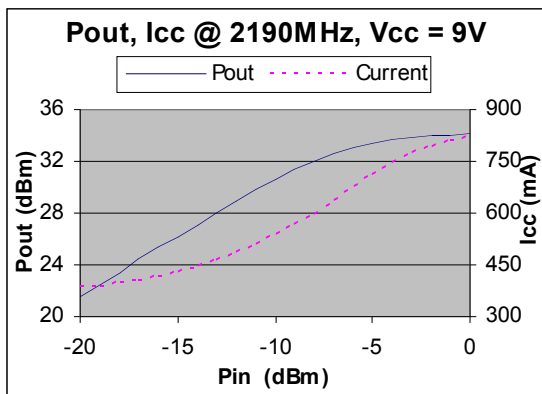
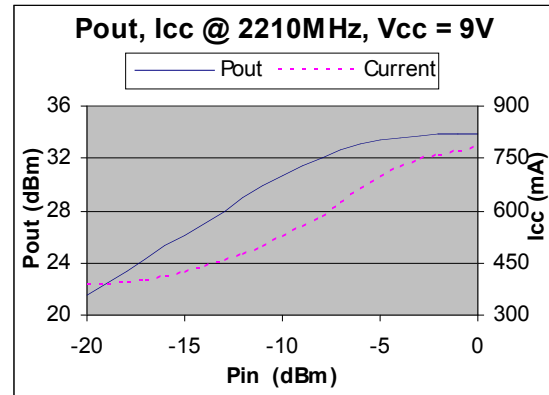
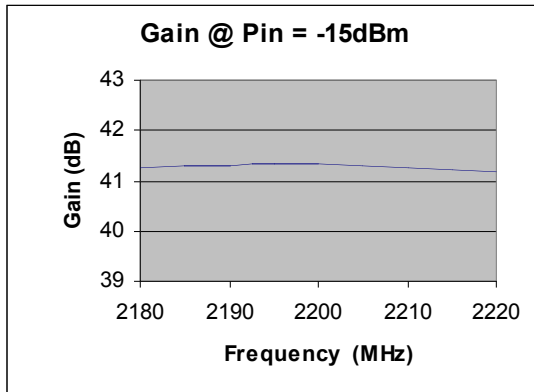
Electrical Specifications @ +25 °C, $Z_s = Z_L = 50 \Omega$, $V_{cc} = 9V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2190		2210
Small Signal Gain	dB	40	41	
Output Power P_{out} @ $P_{in} = -6dBm$	dBm		+33	
IP3	dBm		+42	
Reverse Isolation	dB		-60	
Noise Figure	dB		2.2	2.5
Efficiency at $P_{out} = +33dBm$	%	33		
VSWR Input			1.5:1	2.0:1
Output			1.5:1	2.0:1
DC Power Supply	V		9	
Quiescent Current with No Input	mA		380	
Supply Current at $P_{out} = +33dBm$	mA		670	
Size (Excluding SMA Connector)	inch	3.750" x 2.000" x 1.813"		
Weight	Oz.	8		

HD24867

2190-2210MHz 2W RF Power Amplifier

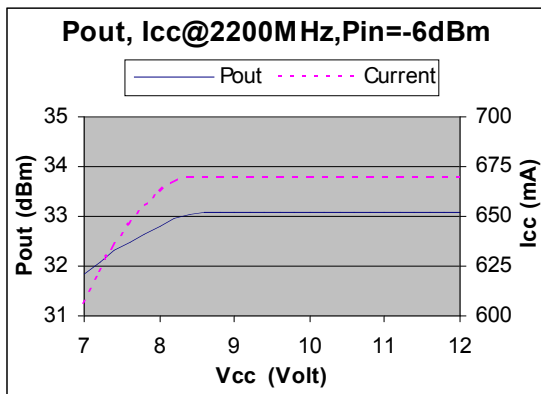
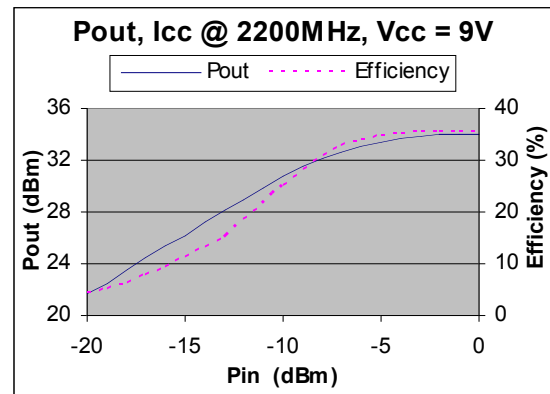
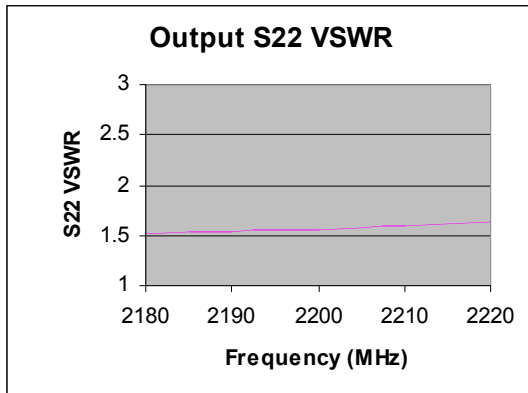
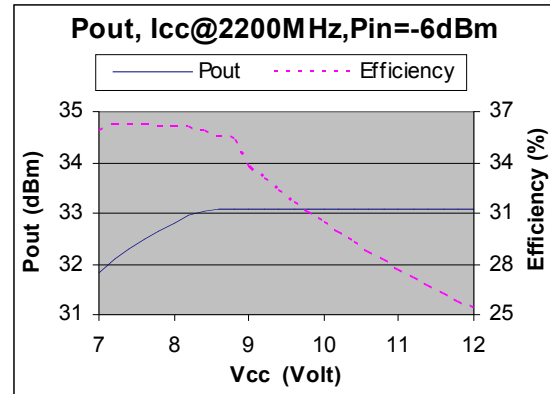
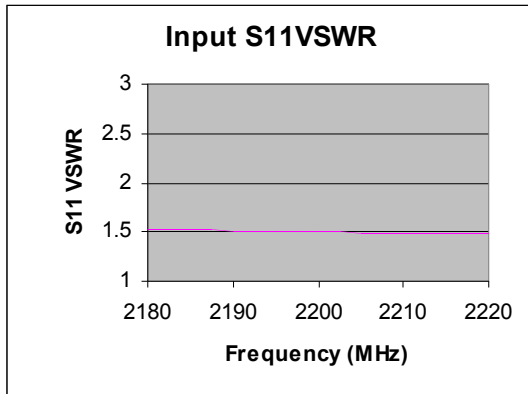
Typical Performance @ +25 °C



HD24867

2190-2210MHz 2W RF Power Amplifier

Typical Performance @ +25 °C



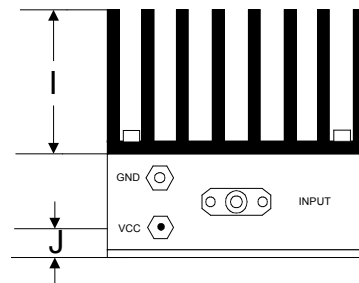
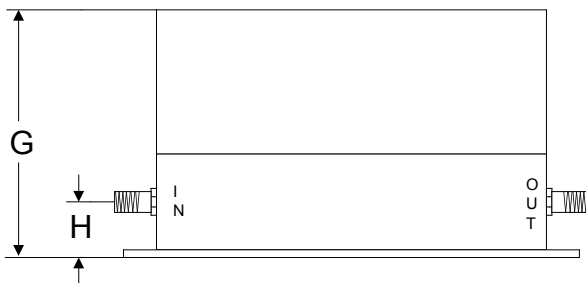
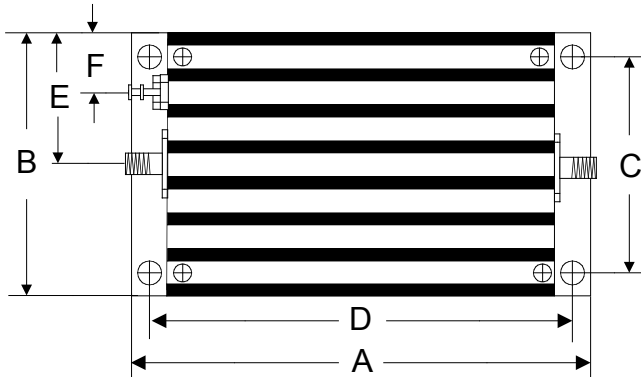
HD24867

2190-2210MHz 2W RF Power Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
Supply Voltage	+15V
Operating Temperature	-30 °C to +65 °C
Storage Temperature	-55 °C to +100 °C

Outline



	A	B	C	D	E	F	G	H	I	J
Inch	3.750	2.000	1.750	3.400	1.000	0.400	1.813	0.375	1.000	0.238
mm	92.25	50.80	44.45	86.36	25.40	10.16	46.05	9.53	25.40	6.03