

HD28409 750MHz – 1150MHz 1W RF Power Amplifier

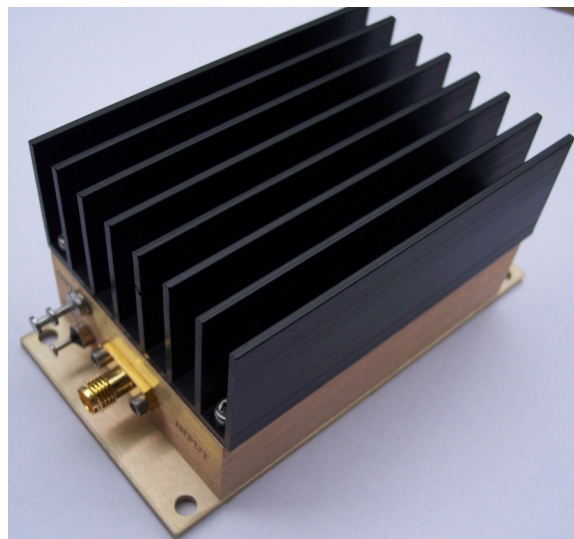
Features

- Frequency Range: 750-1150MHz
- Gain: 28dB
- P_{out}: +30dBm
- IP3: +40dBm
- Noise Figure: 6dB
- DC Power: 10V-15V
- SMA Connector

Performance tested at 950MHz

Description

HD28409 is a 1Watt (+30dBm) output RF Power Amplifier with operating frequency from 750MHz to 1150MHz.



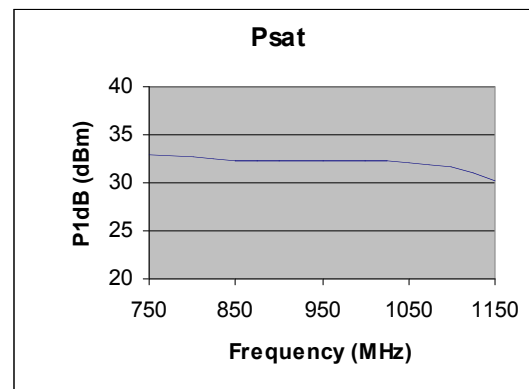
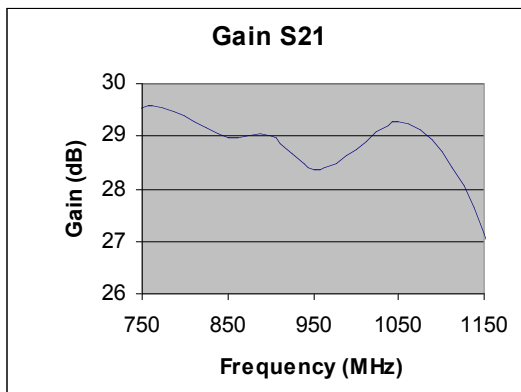
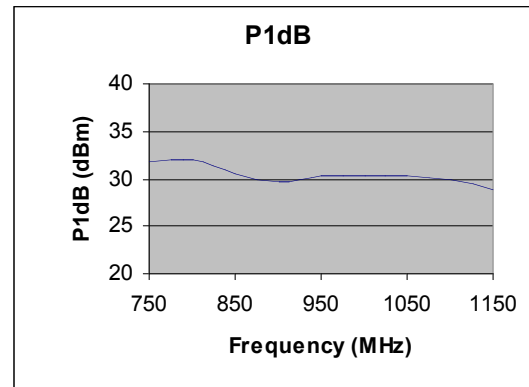
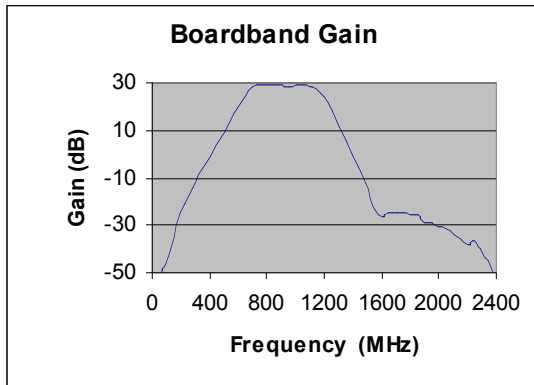
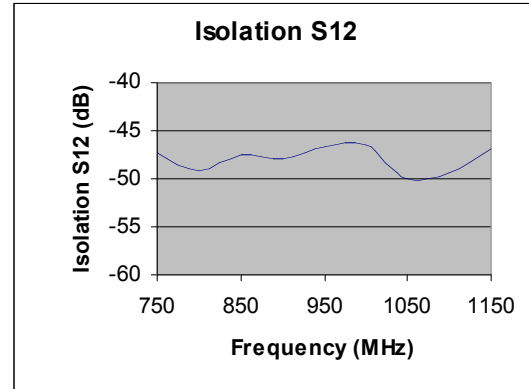
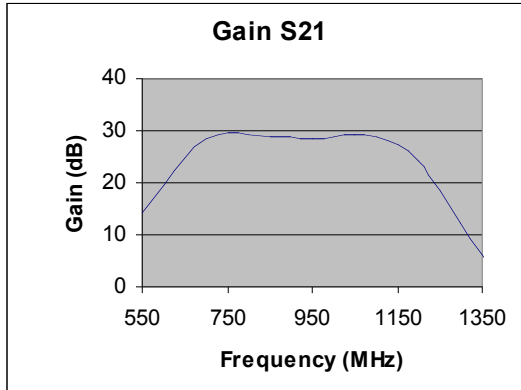
Electrical Specifications @ +25 °C, Z_s = Z_L = 50 Ω, V_{cc} = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	750		1150
Small Signal Gain f = 750MHz	dB		29	
	dB		28	
	dB		27	
Output Power P _{1dB}	dBm		+30	
Psat	dBm		+32	
IP3	dBm		+40	
Reverse Isolation	dB		-46	
Noise Figure	dB		6.0	
VSWR Input			2.3:1	
	Output		1.5:1	
DC Power Supply	V	10	12	15
Quiescent Current with No Input	mA		540	
Supply Current at P _{out} = +30dBm	mA		1000	
Size (Excluding SMA Connector)	inch	3.750" x 2.000" x 1.813"		

HD28409 750MHz – 1150MHz 1W RF Power Amplifier

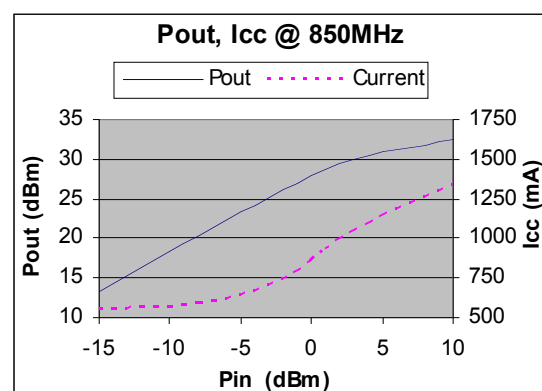
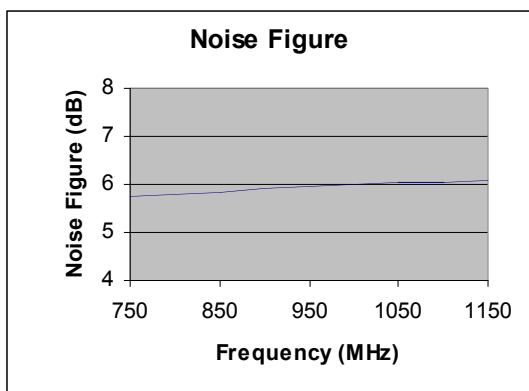
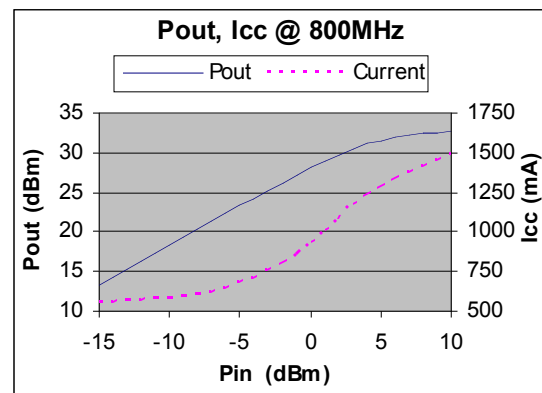
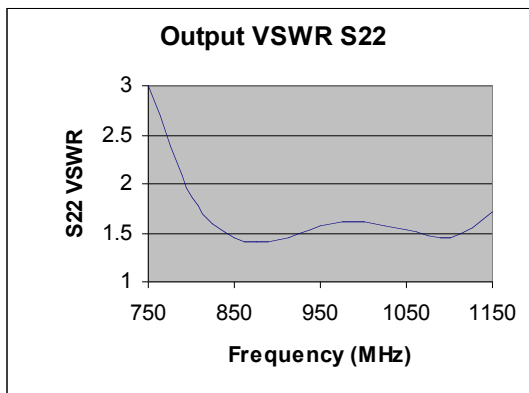
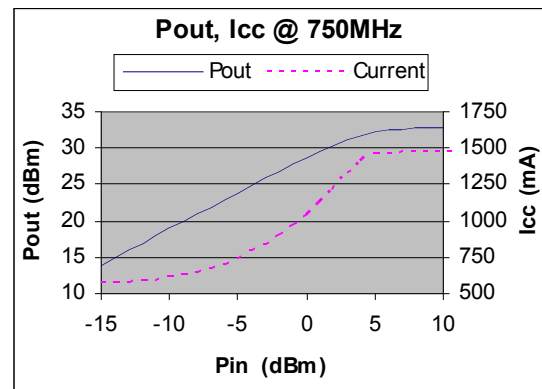
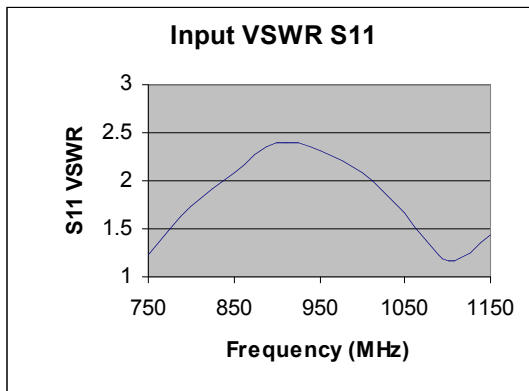
Weight	Oz.	8
--------	-----	---

Typical Performance @ +25 °C



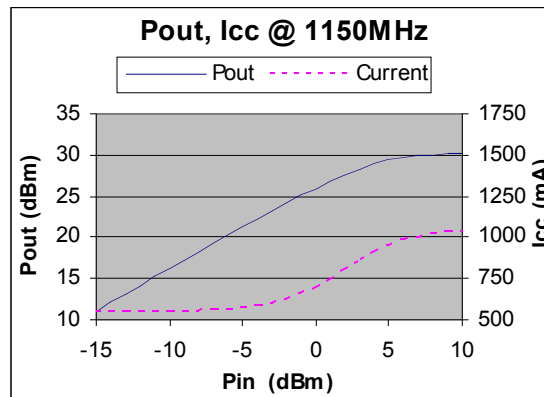
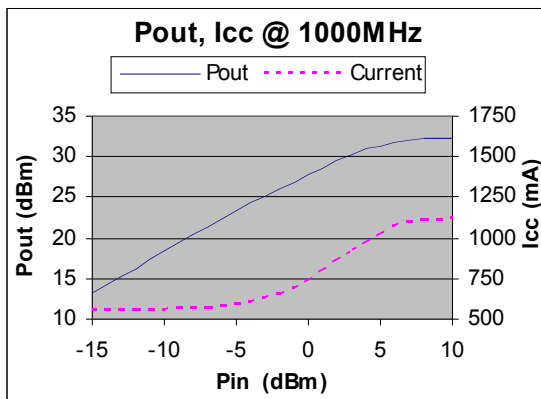
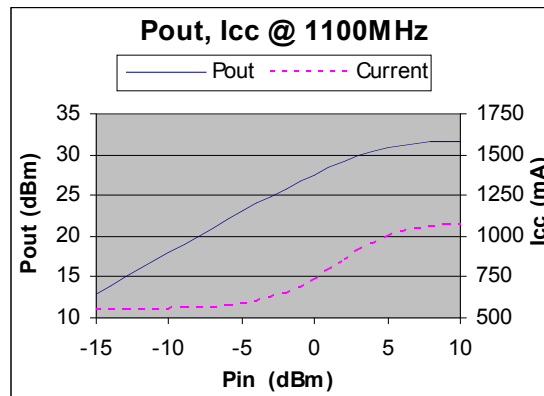
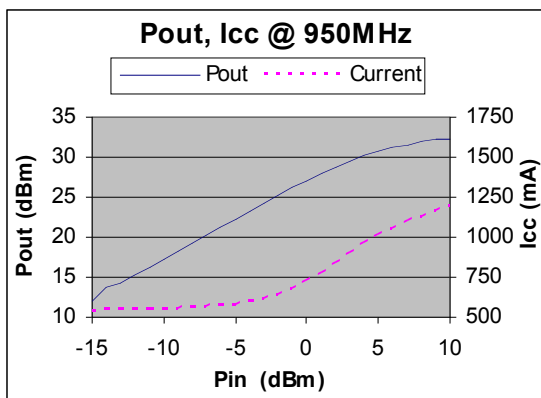
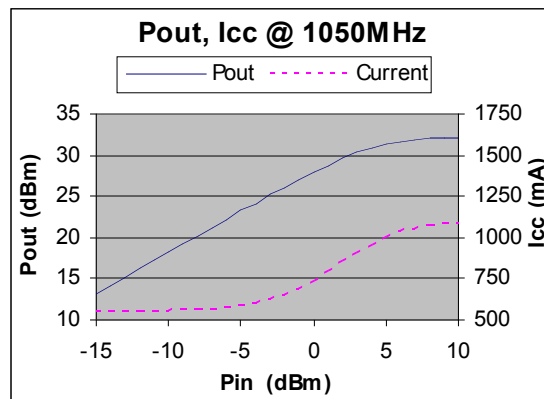
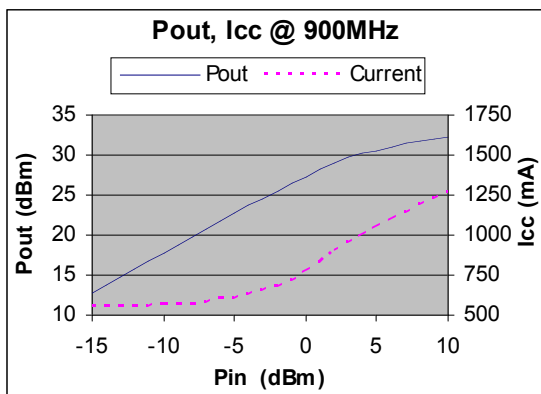
HD28409 750MHz – 1150MHz 1W RF Power Amplifier

Typical Performance @ +25 °C



HD28409 750MHz – 1150MHz 1W RF Power Amplifier

Typical Performance @ +25 °C

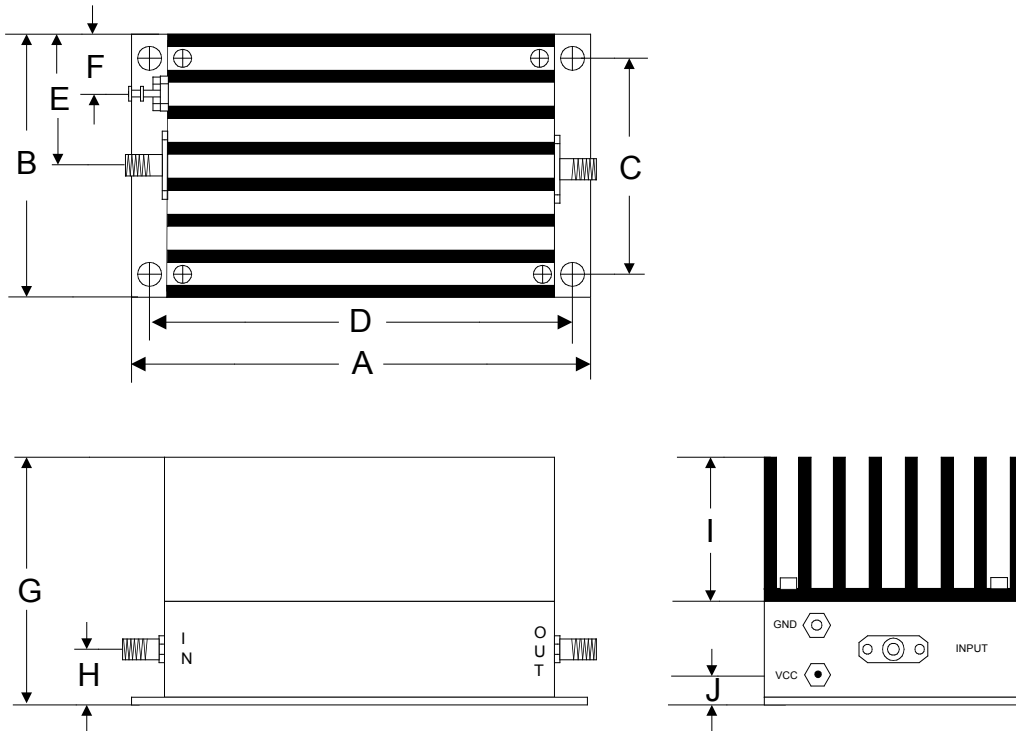


HD28409 750MHz – 1150MHz 1W RF Power Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
Supply Voltage	+20V
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