

HD23414

DC - 4000MHz RF Amplifier

Features

- Frequency Range: 10-4000MHz
- Gain: 18dB
- P_{1dB}: +18.5dBm
- IP3: +34dBm
- Noise Figure: 3.5dB
- DC Power: 12V
- SMA Connector

Performance measured @ 2000MHz

Description

HD23414 is a wideband Low Power RF Amplifier operates with frequency range from 10MHz to 4000MHz.



Electrical Specifications @ +25 °C, Z_s = Z_L = 50 Ohms

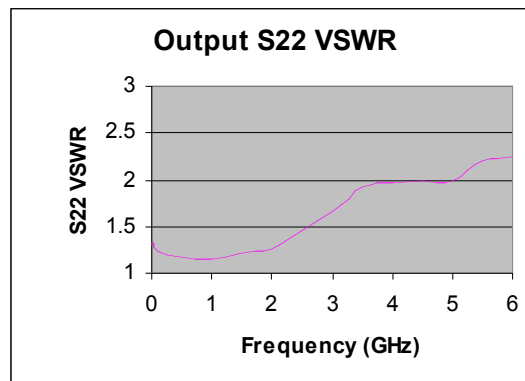
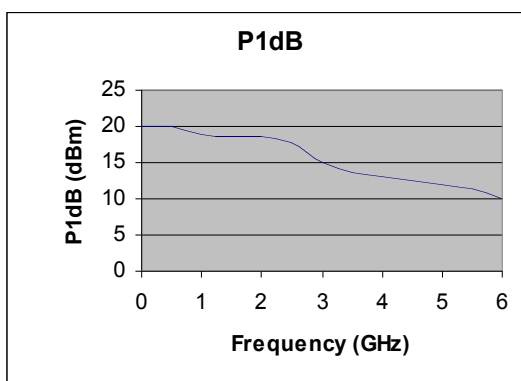
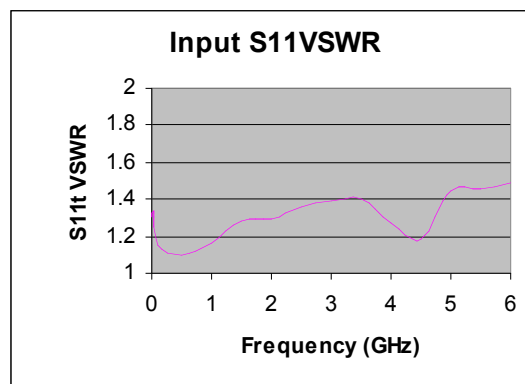
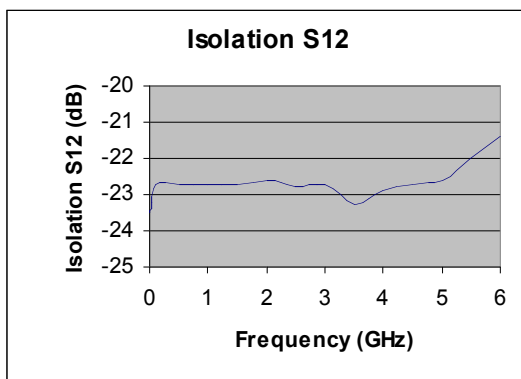
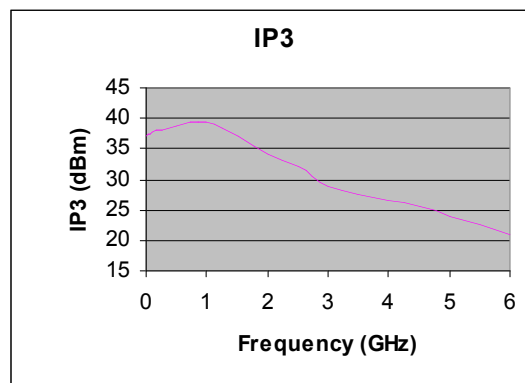
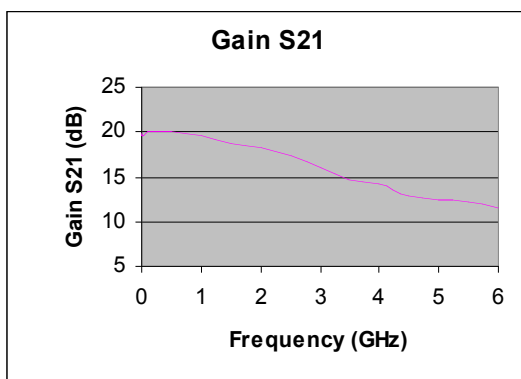
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		4000
Gain f = 100MHz	dB		20	
f = 2000MHz	dB		18.2	
f = 4000MHz	dB		14.6	
P _{1dB} f = 100MHz	dBm		+20	
f = 2000MHz	dBm		+18.5	
f = 4000MHz	dBm		+13	
IP3 f = 100MHz	dBm		+37.7	
f = 2000MHz	dBm		+34	
f = 4000MHz	dBm		+25	
Noise Figure f = 2000MHz	dB		3.5	
VSWR f = 100-4000MHz				
Input VSWR			1.5:1	
Output VSWR			2.0:1	

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DC Power Supply	V	9	12	15
Supply Current	mA		80	

Typical Performance @ +25 °C



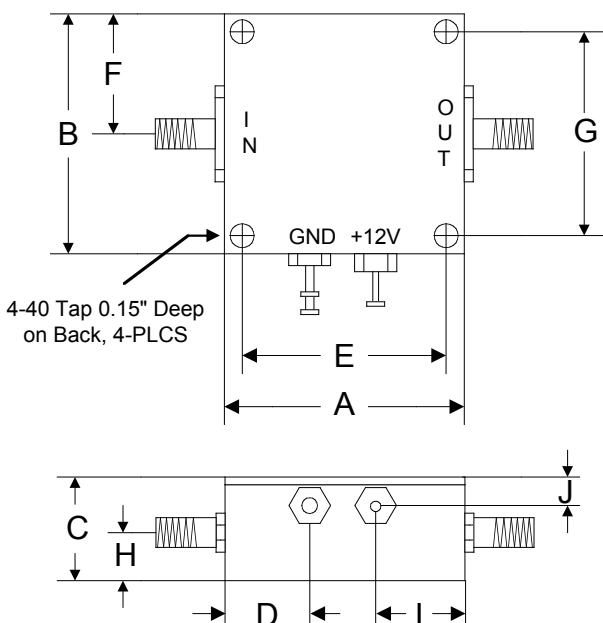
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+16V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °C

Outline



	A	B	C	D	E	F	G	H	I	J
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76