

HD24409

5700–5900Mhz Low Noise Amplifier

Features

- Frequency Range: 5.7 – 5.9GHz
- Gain: 16dB
- P_{1dB}: +12dBm
- IP3: +24dBm
- Noise Figure: 2.0dB
- DC Power: 12V
- SMA Connector

Performance measured @ 5.8GHz



Description

HD24409 is a 16dB Gain Low Noise Amplifier operates with frequency range for 5.8GHz ISM Band.

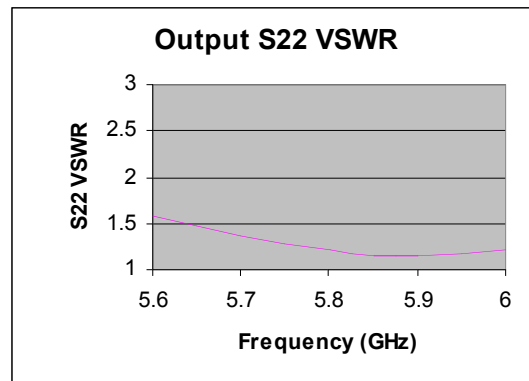
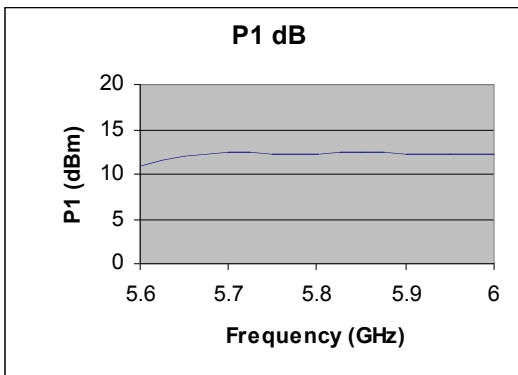
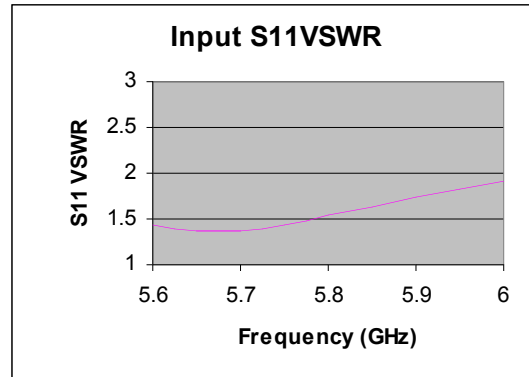
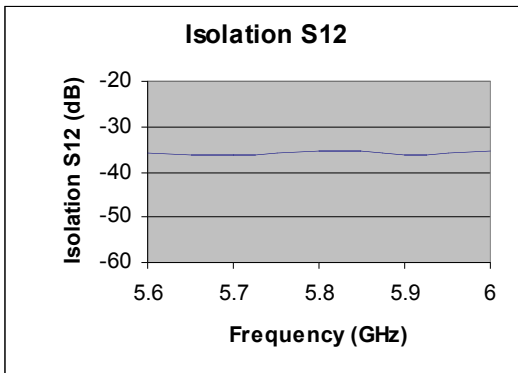
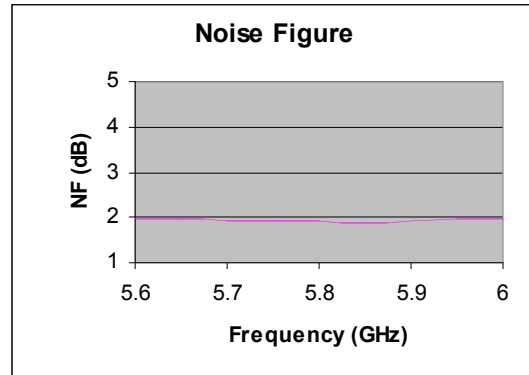
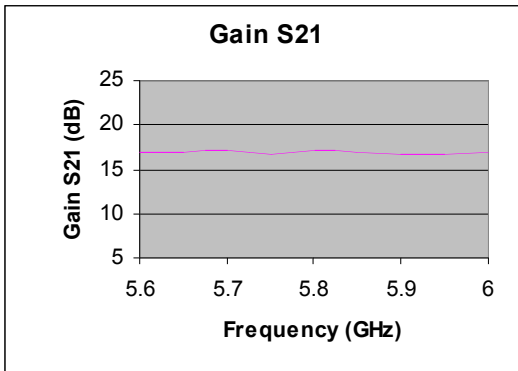
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	5.7		5.9
Gain	f = 5.7 GHz		16	
	f = 5.8 GHz		16	
	f = 5.9 GHz		16	
P _{1dB}	f = 5.7 GHz		+12	
	f = 5.8 GHz		+12	
	f = 5.9 GHz		+12	
IP3	f= 5.8 GHz		+24	
Noise Figure	dB		2.0	
Reverse Isolation	dB		-35	
VSWR	f = 5.7 – 5.9 GHz			
	Input VSWR		1.7:1	
	Output VSWR		1.4:1	
DC Power Supply	V	7	12	15
Supply Current	mA		55	

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Typical Performance @ +25 °C



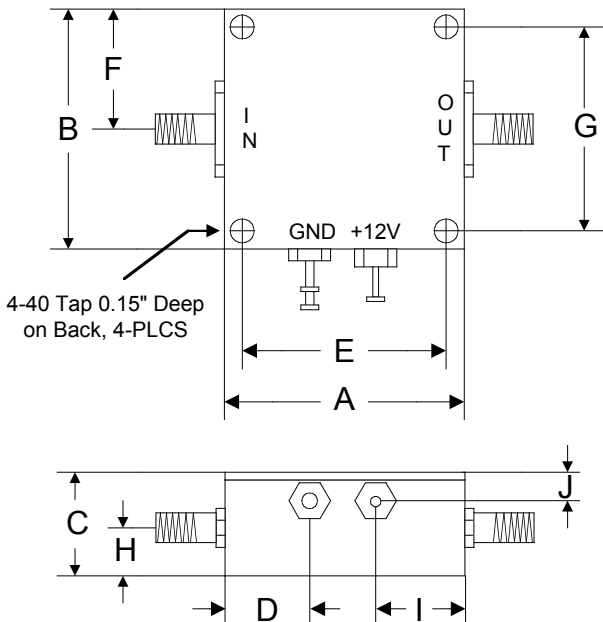
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+25V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °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