

HD24387

10 – 550MHz Low Noise Amplifier

Features

- Frequency Range: 10 - 550MHz
- Gain: 19dB
- P_{1dB}: +8dBm
- IP3: +20dBm
- Noise Figure: 0.9dB
- DC Power: 6-24V
- SMA Connector

Performance measured @ 275MHz



Description

HD24387 is a 0.9dB Noise Figure Low Noise Amplifier operates in wideband with frequency range from 10MHz to 550MHz.

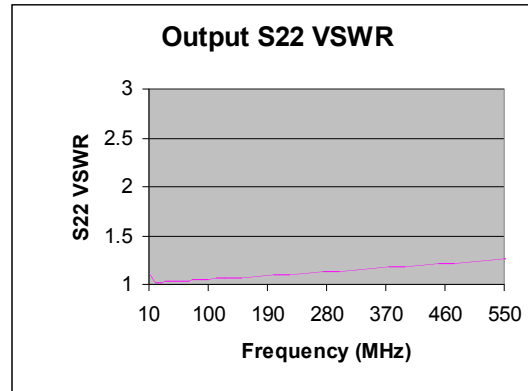
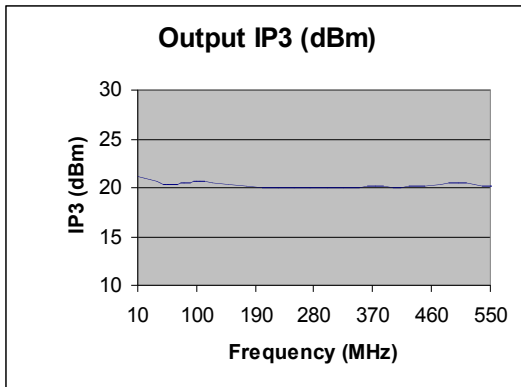
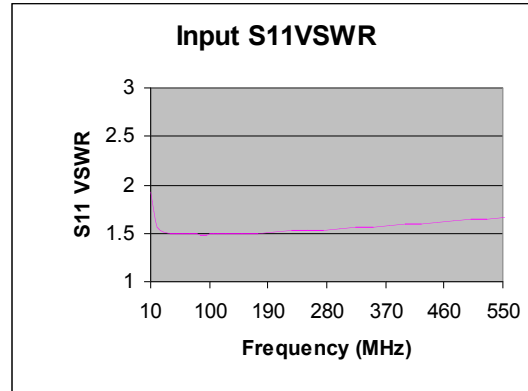
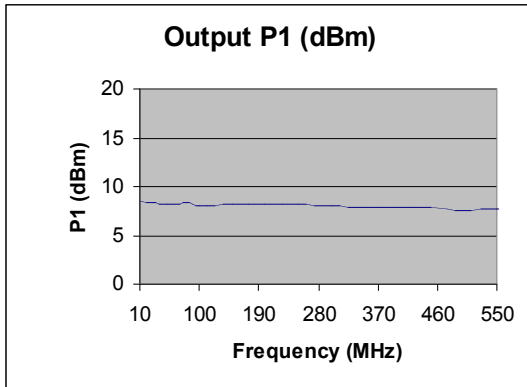
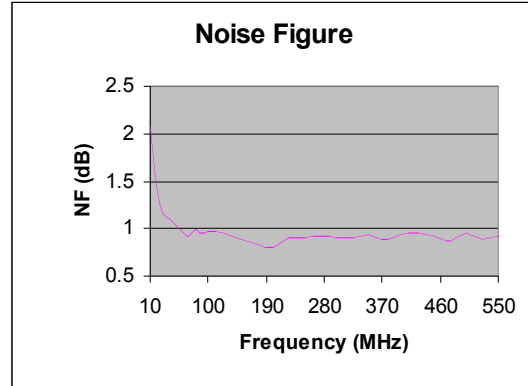
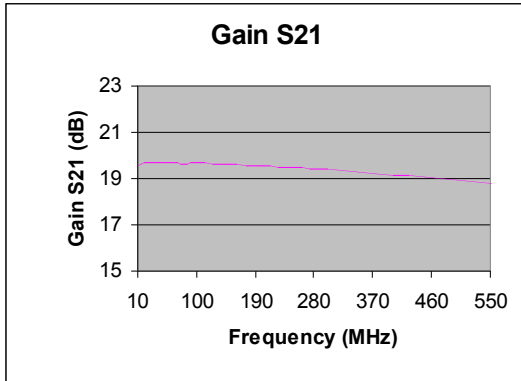
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = 12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		550
Gain				
f = 10MHz	dB		19.5	
f = 275MHz	dB		19.3	
f = 550MHz	dB		18.8	
Gain Flatness	dB		± 0.7	
P _{1dB}	dBm		+8	
IP3	dBm		+20	
Noise Figure	dB		0.9	
Reverse Isolation	dB		-23	
VSWR				
Input VSWR			1.5:1	
Output VSWR			1.2:1	
DC Power Supply	V	6	12	24
Supply Current	mA		30	

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Typical Performance @ +25 °C



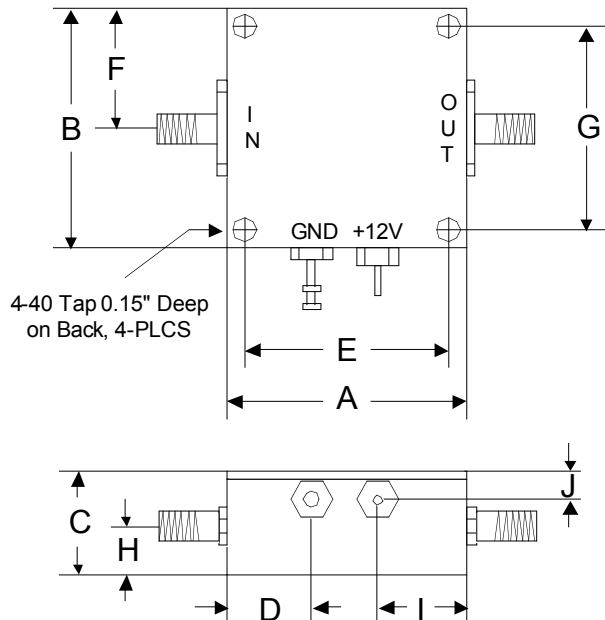
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
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