

HD24386

420 – 450MHz Low Noise Amplifier

Features

- Frequency Range: 420 -450MHz
- Gain: 24dB
- P_{1dB}: +14dBm
- IP3: +26dBm
- Noise Figure: 2.7dB
- DC Power: 6 - 24V
- SMA Connector



Performance measured @ 435MHz

Description

HD24386 is a 2.7dB Noise Figure Low Noise Amplifier operates in 70cm Ham Amateur Radio Band with frequency range from 420 to 450MHz.

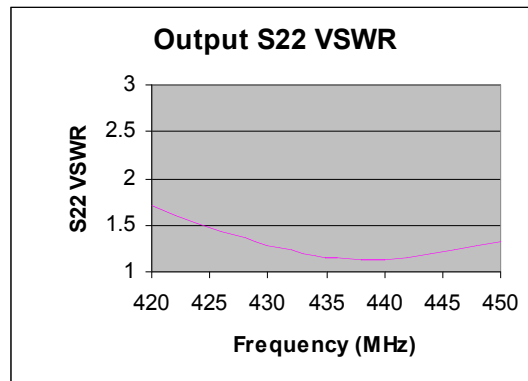
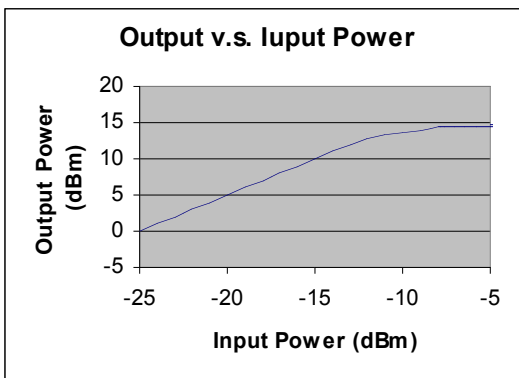
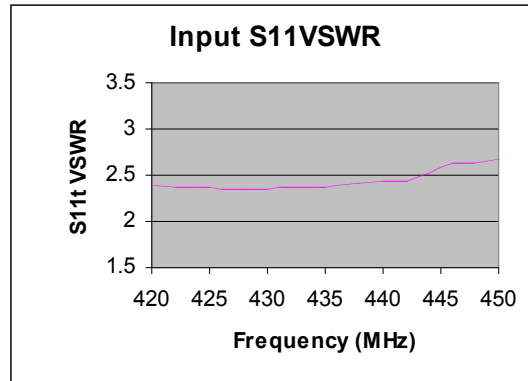
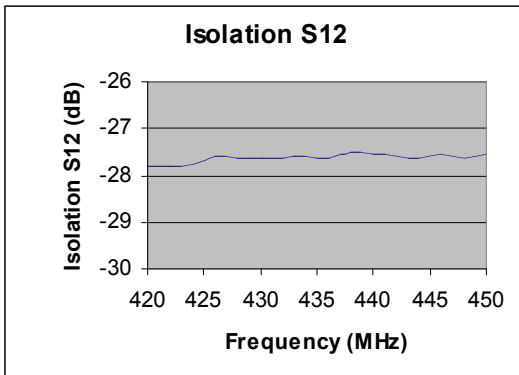
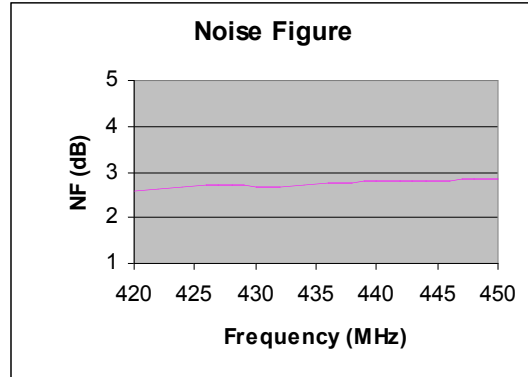
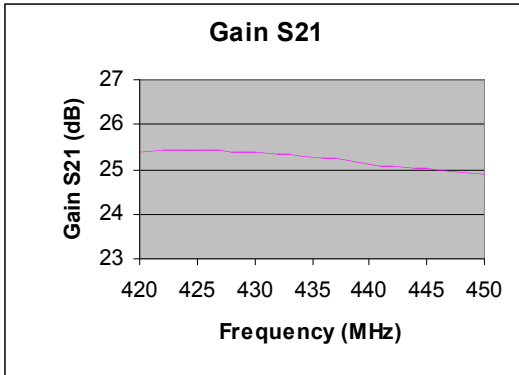
Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	420		450
Gain f = 420MHz	dB		24	
f = 435MHz	dB	23	24	
f = 450MHz	dB		24	
P _{1dB} f = 435MHz	dBm		+14	
IP3 f= 435MHz	dBm		+26	
Noise Figure	dB		2.7	3.0
Reverse Isolation	dB		-27	
VSWR f = 435MHz				
Input VSWR			2.5:1	
Output VSWR			1.2:1	
DC Power Supply	V	6	12	24
Supply Current	mA		20	

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Typical Performance @ +25 °C



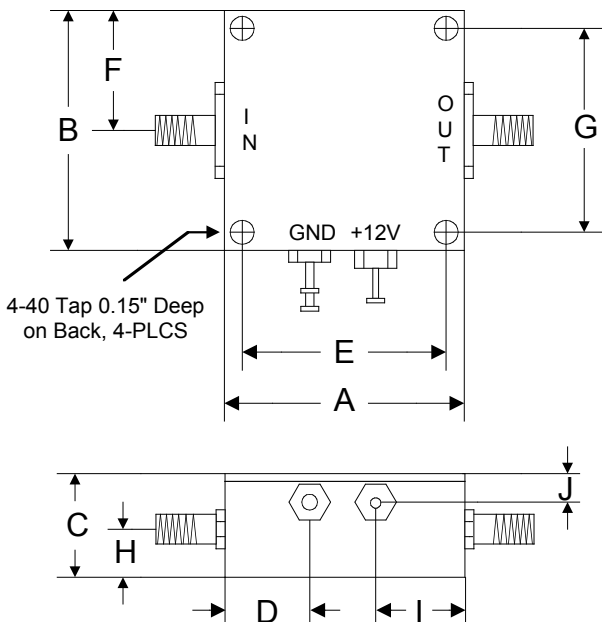
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Absolute Maximum Ratings

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