
HD24401 2200 – 2700MHz Low Noise Amplifier

Features

- Frequency Range: 2200-2700MHz
- Gain: 16dB
- P_{1dB}: +14dBm
- IP3: +26dBm
- Noise Figure: 1.4dB
- DC Power: 6 - 24V
- SMA Connector



Performance measured @ 2450MHz

Description

HD24401 is a 1.4dB Noise Figure Low Noise Amplifier operates with ISM band frequency range from 2.2 to 2.7GHz.

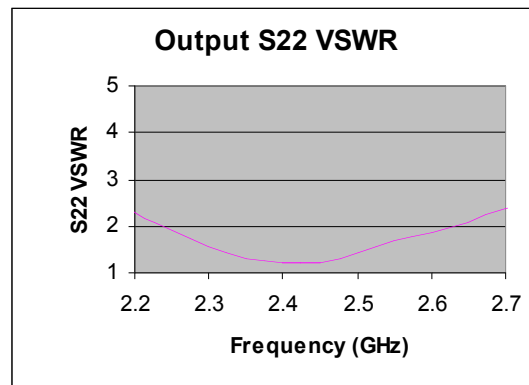
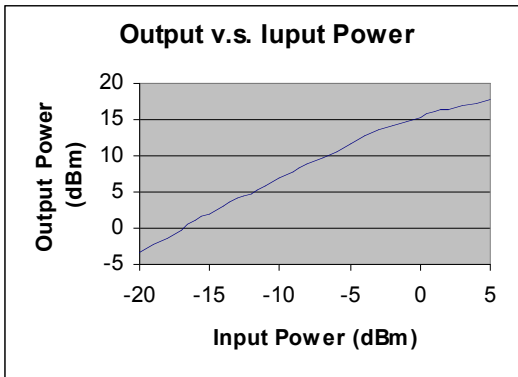
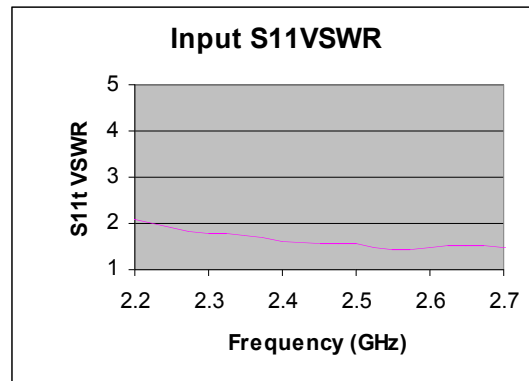
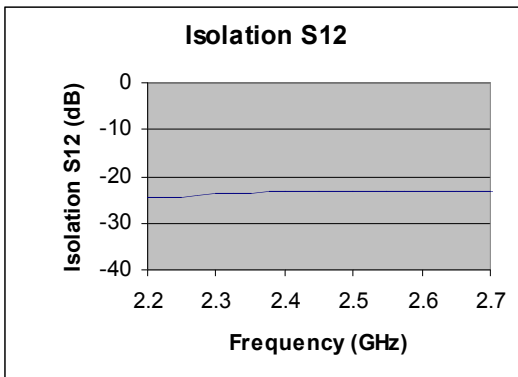
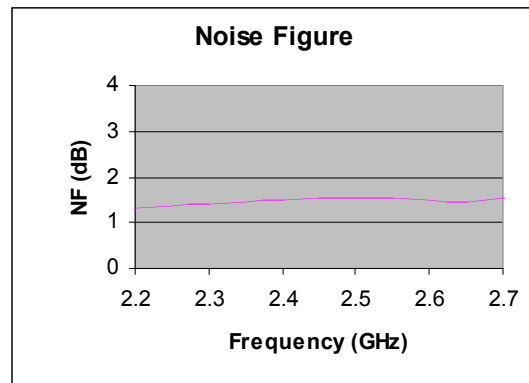
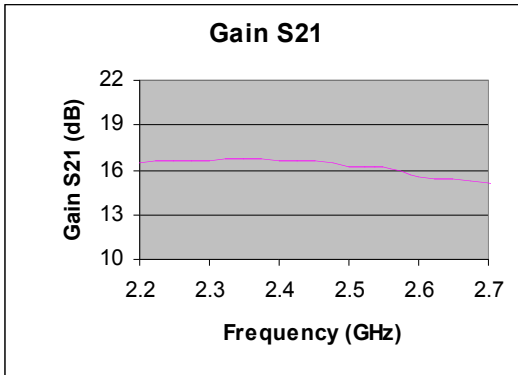
Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2400		2500
Gain f = 2200MHz	dB		16	
f = 2450MHz	dB	14	16	
f = 2700MHz	dB		15	
P _{1dB} f = 2450MHz	dBm		+14	
IP3 f = 2450MHz	dBm		+26	
Noise Figure	dB		1.4	1.6
Reverse Isolation	dB		-23	
VSWR f = 2450MHz				
Input VSWR			1.6:1	
Output VSWR			1.3:1	
DC Power Supply	V	6	12	24
Supply Current	mA		25	

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2200 – 2700MHz Low Noise Amplifier

Typical Performance @ +25 °C



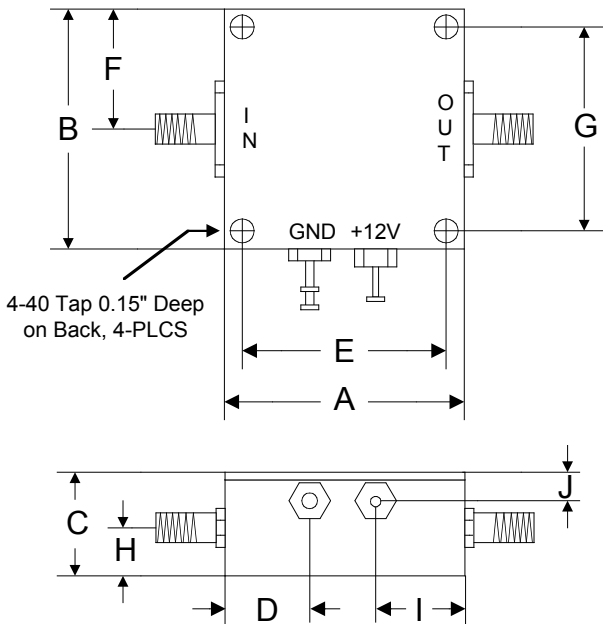
HD24401

2200 – 2700MHz Low Noise Amplifier

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