

HD26031

200 – 300MHz Low Noise Amplifier

Features

- Frequency Range: 200 - 300MHz
- Gain: 21dB
- P_{1dB}: +19dBm
- IP3: +33dBm
- Noise Figure: 1.1dB
- DC Power: 15V/75mA
- SMA Female – Female
Other gender available



Description

HD26031 is a 1.1dB Noise Figure 21dB Gain High Dynamic Range Low Noise Amplifier operates in frequency range from 200MHz to 300MHz.

Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = +15V

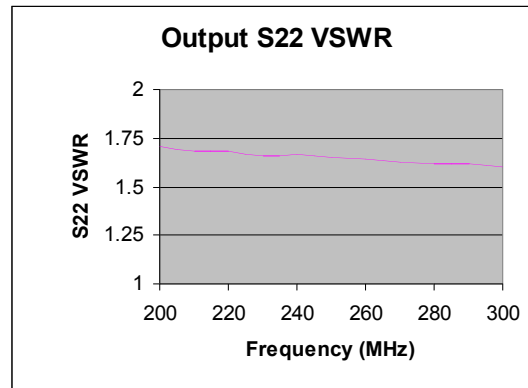
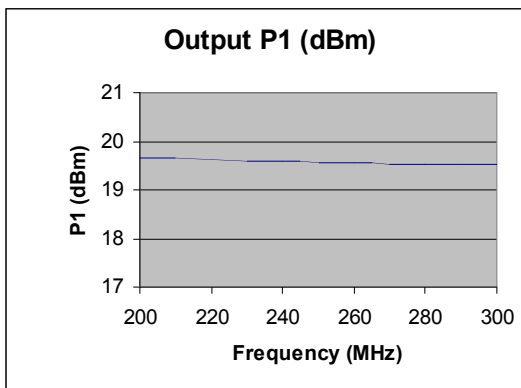
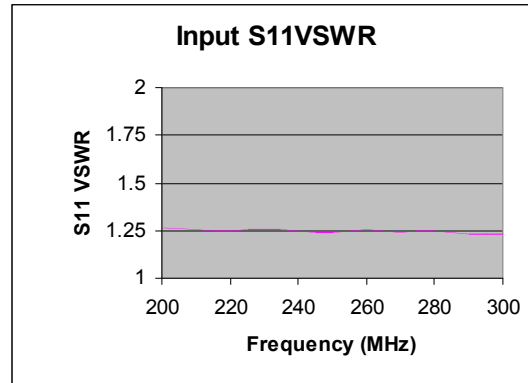
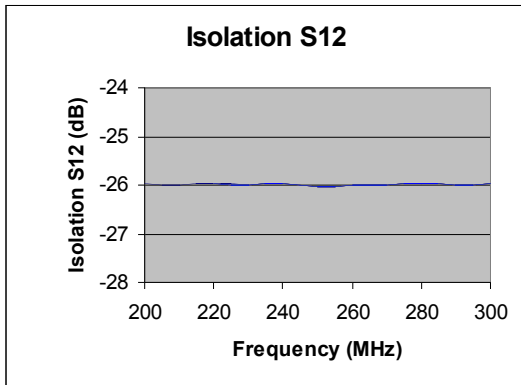
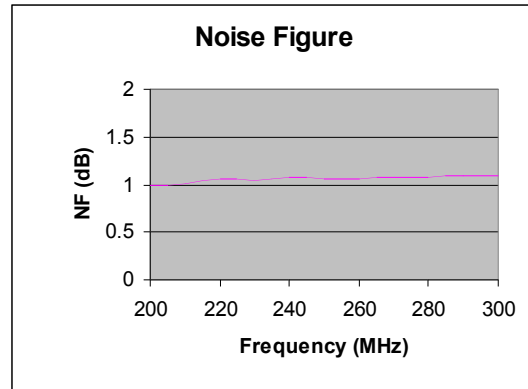
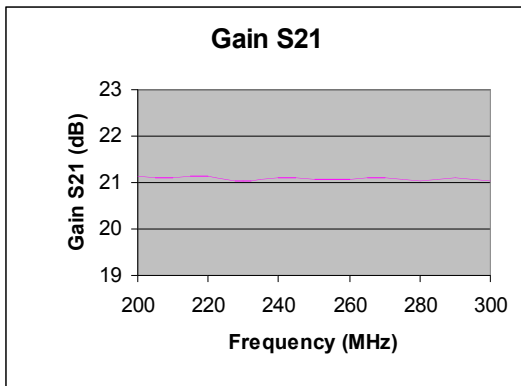
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	200		300
Gain				
f = 200MHz	dB		21	
f = 250MHz	dB		21	
f = 300MHz	dB		21	
Gain Flatness	dB		± 0.2	± 0.4
P _{1dB}	dBm		+19	
IP3	dBm		+33	
Noise Figure	dB		1.1	1.5
Reverse Isolation	dB		-26	
VSWR				
Input VSWR			1.3:1	1.5:1
Output VSWR			1.7:1	1.9:1
DC Power Supply	V	8	15	18
Supply Current	mA		75	
Size	Inch	1.250" (L) x 1.250" (W) x 0.563" (H)		

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Weight	Oz	1.5
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Typical Performance @ +25 °C



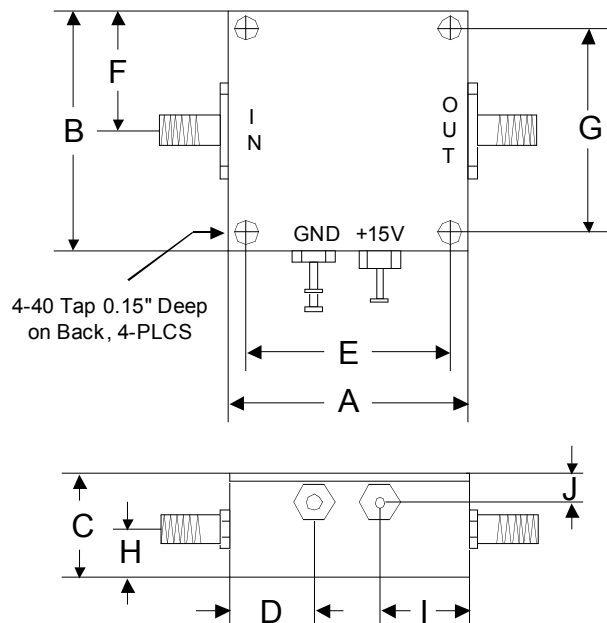
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Absolute Maximum Ratings

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