

HD26183

10KHz –3000MHz RF Amplifier

Features

- Frequency Range:0.01-3000MHz
- Gain: 13dB
- P_{1dB}: +13dBm
- IP3: +27dBm
- Noise Figure: 4dB
- DC Power: 15V/47mA
- SMA Connector

Performance at 3000MHz

Description

HD26183 is a wideband RF Amplifier operates with frequency range from 10KHz to 3000MHz.



Electrical Specifications @ +25 °C, Z_s = Z_L = 50 Ohms, V_{cc}=+15V

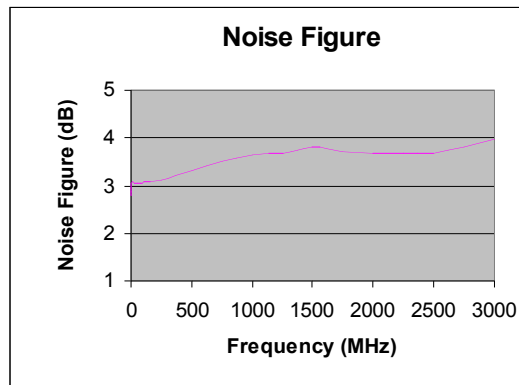
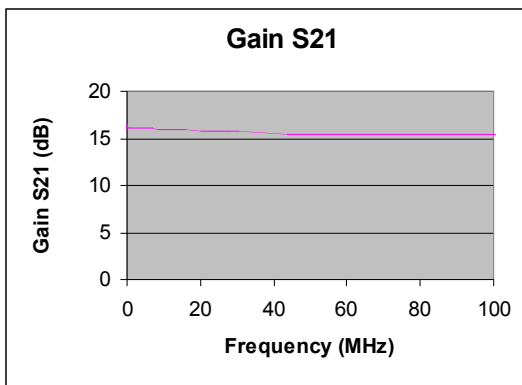
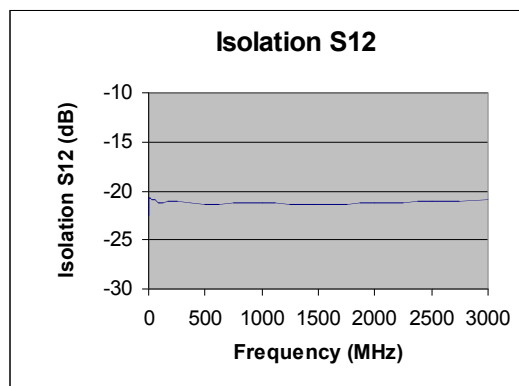
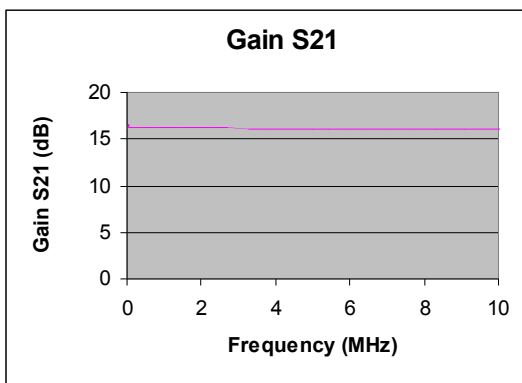
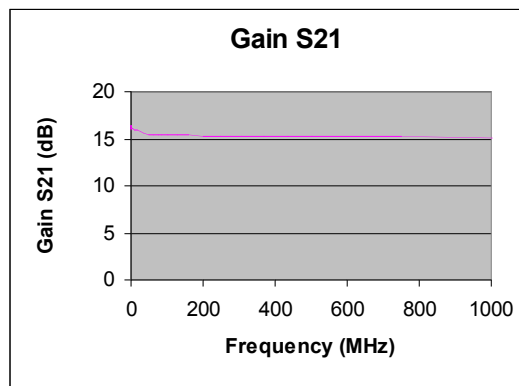
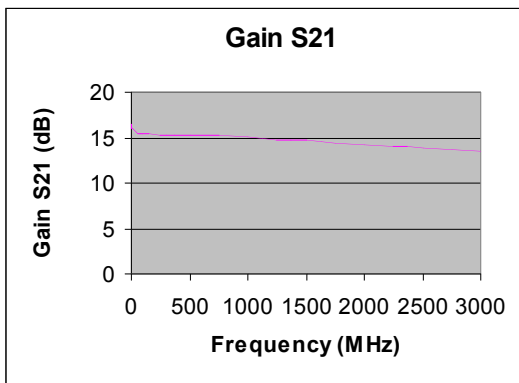
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.01		3000
Gain f = 1KHz	dB		16.0	
f = 1MHz	dB		16.0	
f = 100MHz	dB		15.0	
f = 500MHz	dB		15.0	
f = 1000MHz	dB		15.0	
f = 2000MHz	dB		14.0	
f = 3000MHz	dB		13.0	
P _{1dB}	dBm		+13	
IP3	dBm		+27	
Noise Figure	dB		4.0	
Reverse Isolation	dB		-20	
VSWR Input VSWR			1.2:1	
Output VSWR			1.5:1	
DC Power Supply	V		15	

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Supply Current	mA	47	
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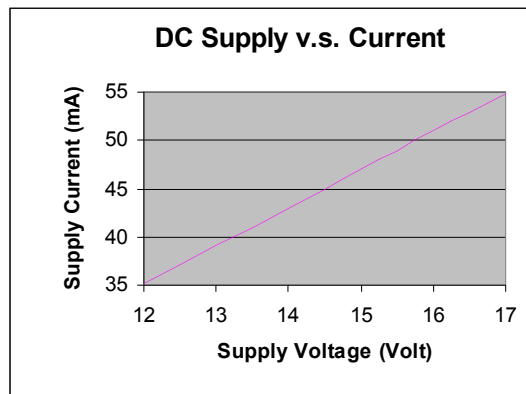
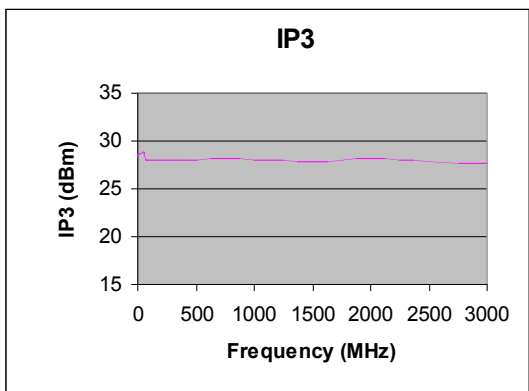
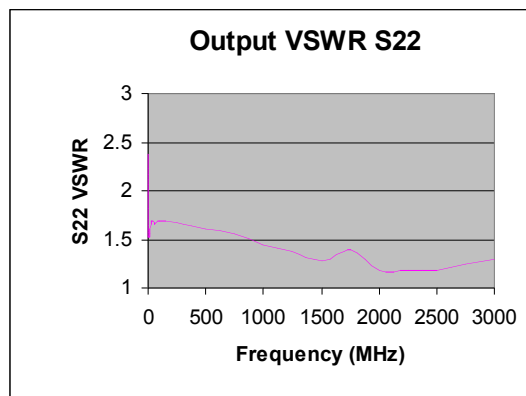
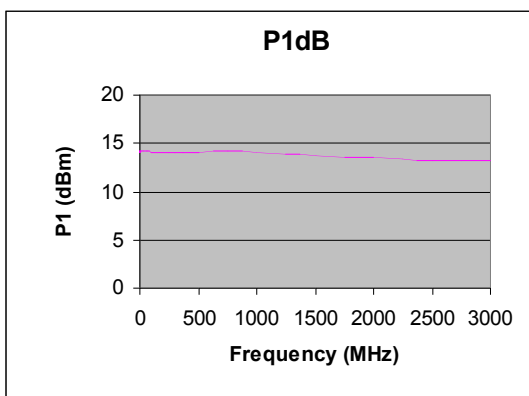
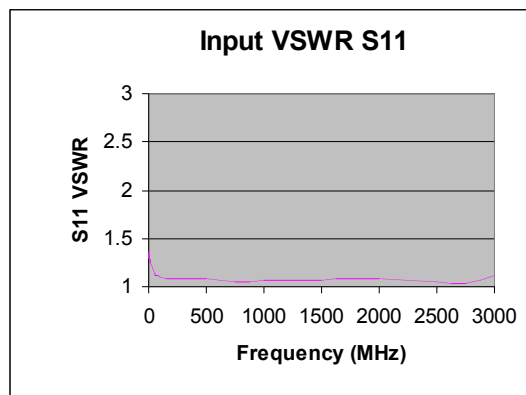
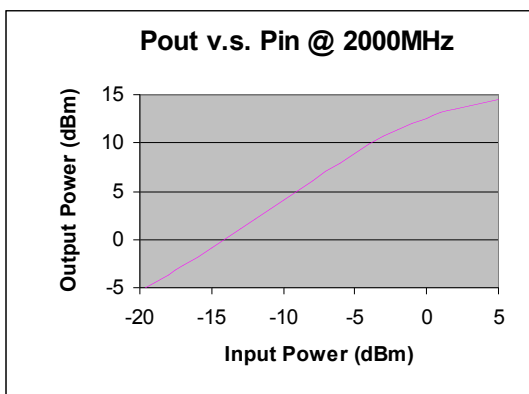
Typical Performance @ +25 °C



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Test Data @ +25 °C



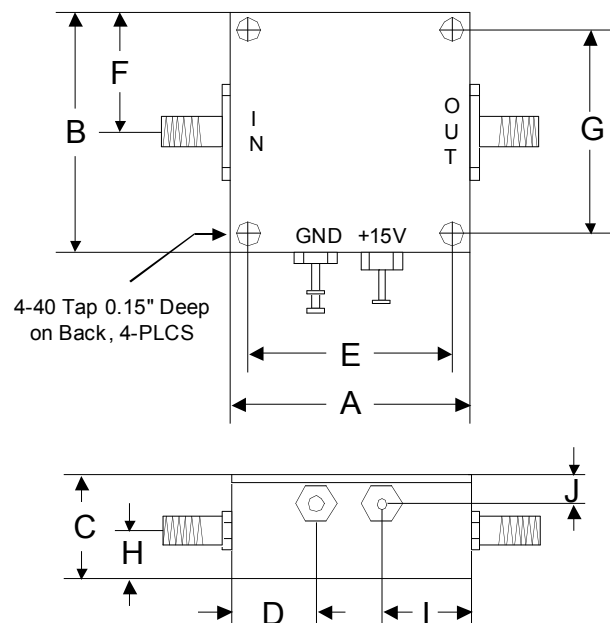
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
Supply Voltage	+17V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °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