

HD26419

50MHz – 3000MHz RF Amplifier

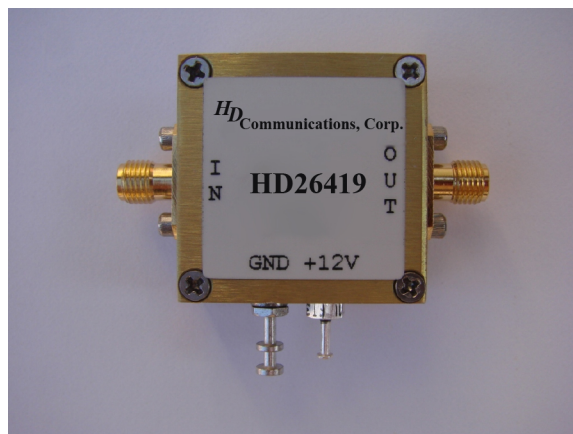
Features

- Frequency Range: 50-3000MHz
- Gain: 11.5dB
- P_{1dB}: +17.5dBm
- IP3: +32.5dBm
- Noise Figure: 4.4dB
- DC Power: 12V/80mA
- SMA Connector

Performance Test @ 2000MHz

Description

HD26419 is a wideband response RF Amplifier operates with frequency range from 50MHz to 3000MHz.



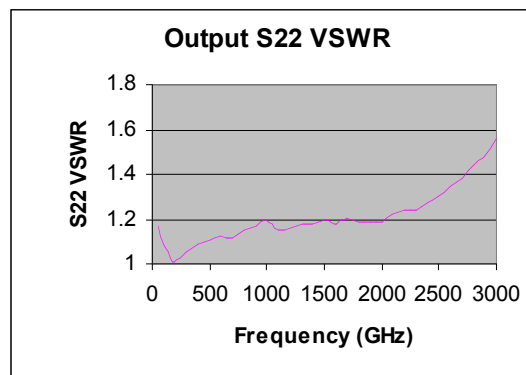
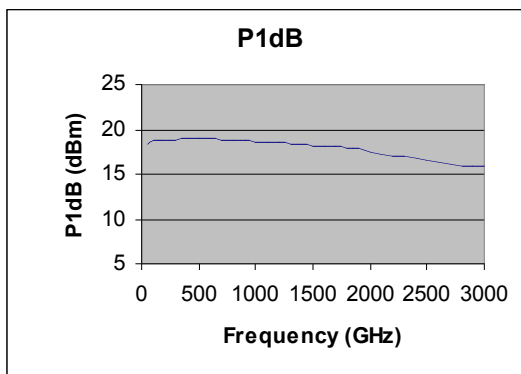
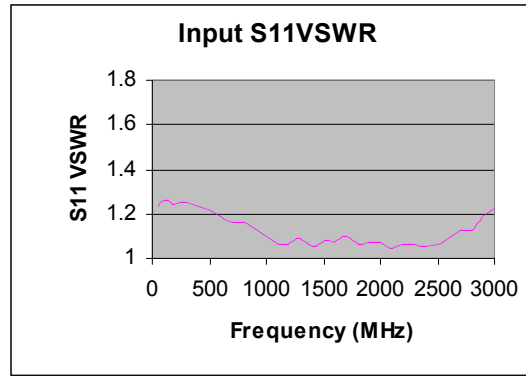
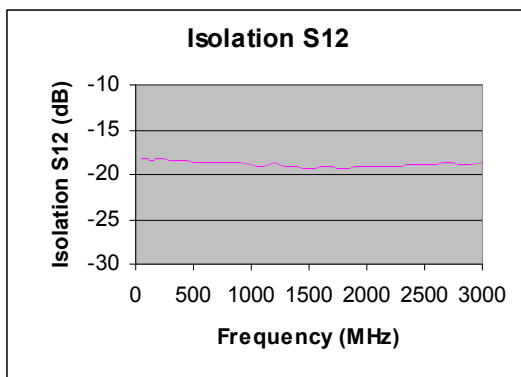
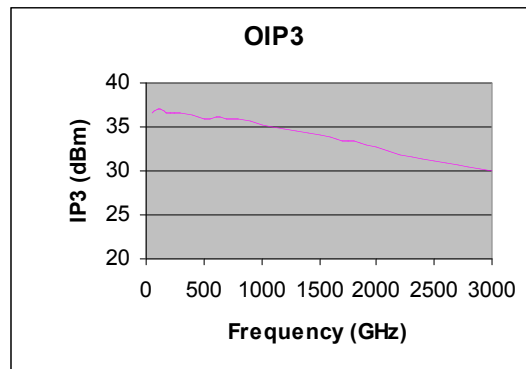
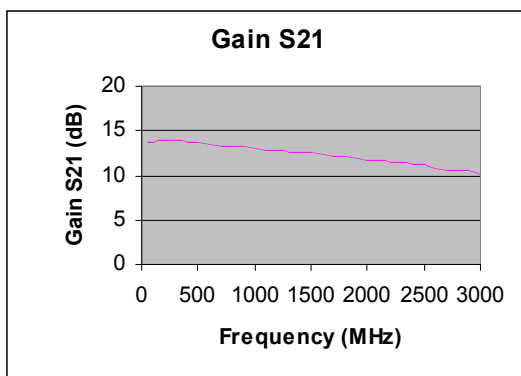
Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ohms, V_{cc}=+12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	50		3000
Gain f = 50 MHz	dB		13.6	
f = 500 MHz	dB		13.8	
f = 1000 MHz	dB		13.0	
f = 2000 MHz	dB		11.5	
f = 3000 MHz	dB		10.0	
P _{1dB} at 2000MHz	dBm		+18.5	
IP3 at 2000MHz	dBm		+32.5	
Noise Figure at 2000MHz	dB		4.4	4.8
Reverse Isolation	dB		-19	
VSWR f = 50-3000MHz				
Input VSWR			1.2:1	
Output VSWR			1.3:1	
DC Power Supply	V	10	12	18
Supply Current	mA		80	

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Typical Performance @ +25 °C



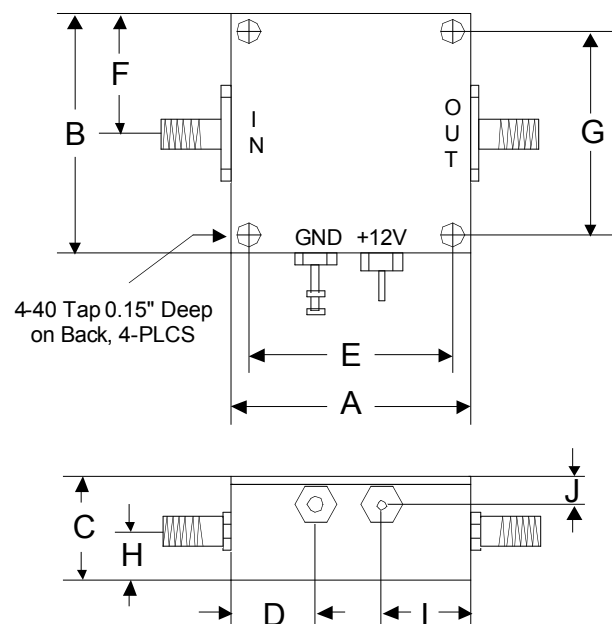
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+18dBm
Supply Voltage	+25V
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