

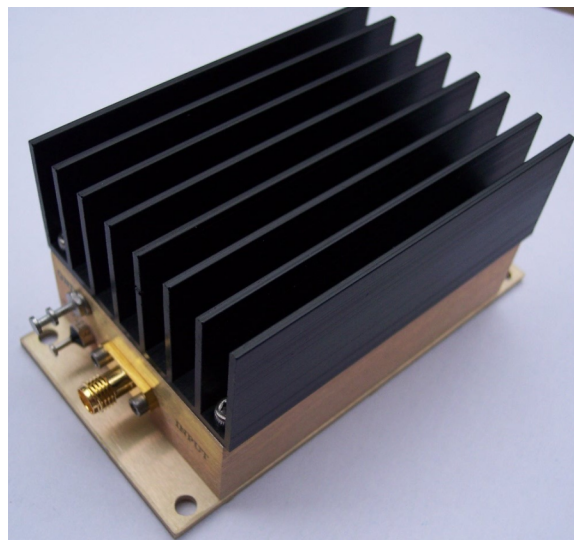
HD24019

30-1200MHz 1W Power RF Amplifier

Features

- Frequency Range: 30-1200MHz
- Gain: 30dB
- P_{1dB}: +30dBm
- IP3: +41dBm
- Noise Figure: 4dB
- DC Power: 12V
- SMA Connector

Performance measured @ 500MHz



Description

HD24019 is a 30dB gain, +30dBm (1 Watt) output Medium Power RF Amplifier, operating frequency range from 30 - 1200MHz with single 12V DC power supply, usable to 1500MHz.

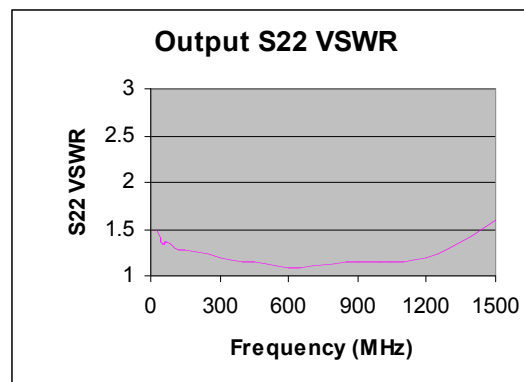
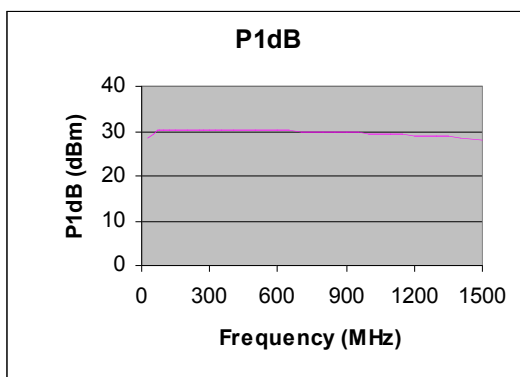
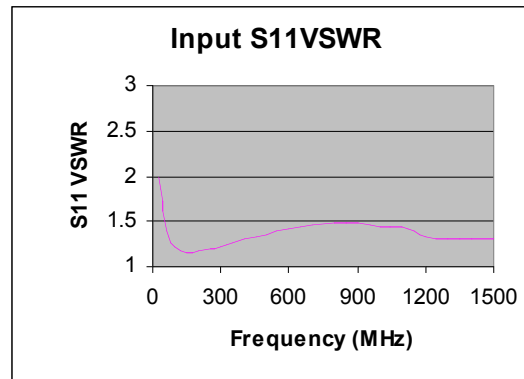
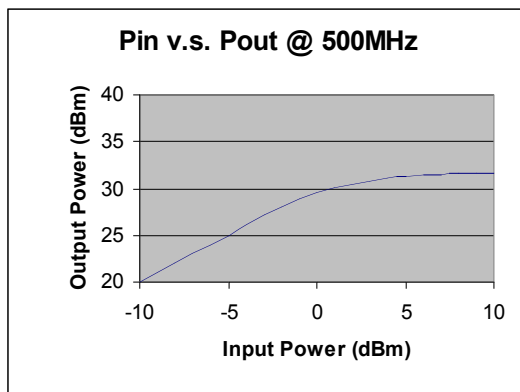
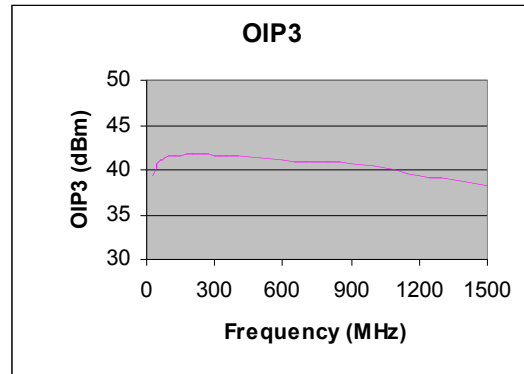
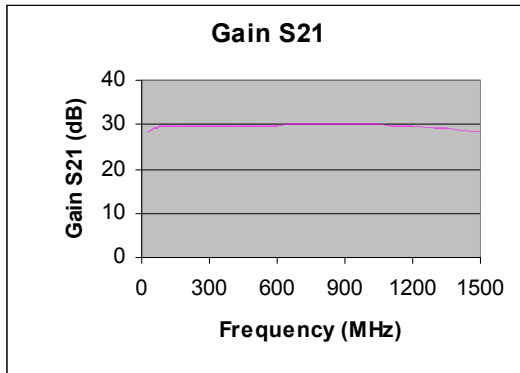
Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ohms

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	30		1200
Gain S ₂₁ f = 30MHz	dB		28.5	
f = 500MHz	dB		30	
f = 900MHz	dB		30	
f = 1200MHz	dB		29	
P _{1dB}	dBm		+30	
IP3	dBm		+41	
Reverse Isolation S ₁₂	dB		-52	
Noise Figure	dB		4	
VSWR Input VSWR S ₁₁			1:1.4	
Output VSWR S ₂₂			1:1.2	
DC Power Supply	V	11	12	13
Supply Current	mA		360	

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Typical Performance @ +25 °C



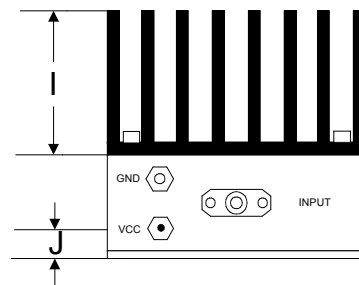
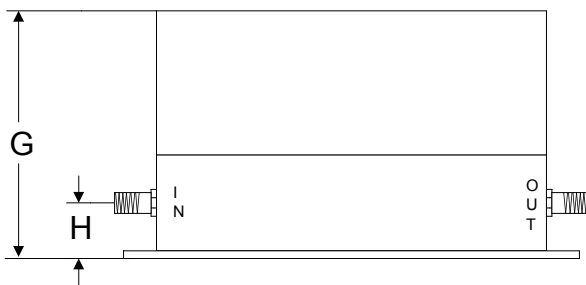
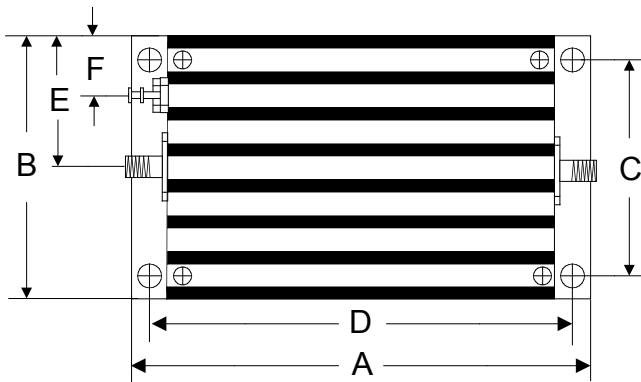
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30-1200MHz 1W Power RF Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
Supply Voltage	+13V
Operating Temperature	-40 °C to +70 °C
Storage Temperature	-55 °C to +100 °C

Outline



	A	B	C	D	E	F	G	H	I	J
Inch	3.750	2.000	1.750	3.400	1.000	0.400	1.813	0.375	1.000	0.238
mm	92.25	50.80	44.45	86.36	25.40	10.16	46.05	9.53	25.40	6.03