

HD30512

20 – 600 MHz Low Noise Amplifier

Features

- Frequency Range: 20-600MHz
- Gain: 67dB
- P_{1dB} : +18dBm
- OIP3: +32dBm
- Noise Figure: 2.2dB (typ.)
- DC Power: 12V to 15V @ 140mA
- SMA-female



Description

HD30512 is a high performance Low Noise (& Driver) Amplifier, with standard frequency range of 20 to 600MHz.

Electrical Specifications @+25 °C, $Z_{in}=Z_{out}=50\ \Omega$, $V_{supply} = +12VDC$

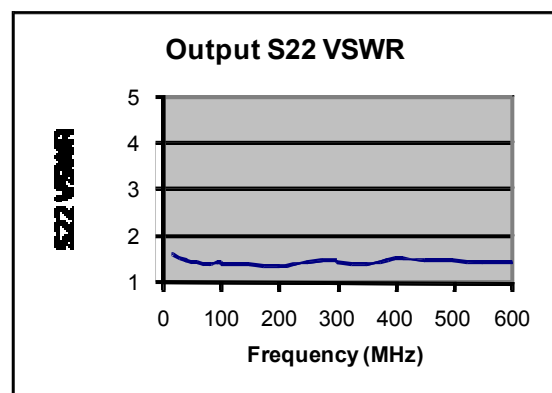
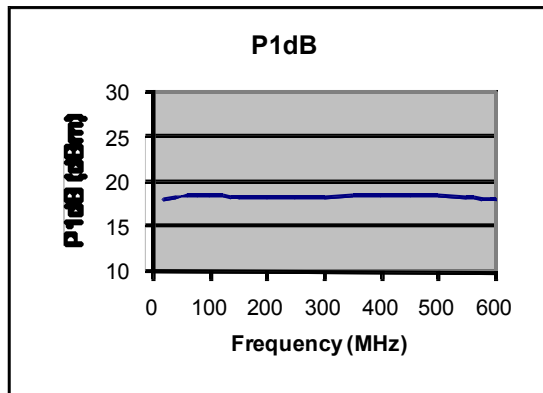
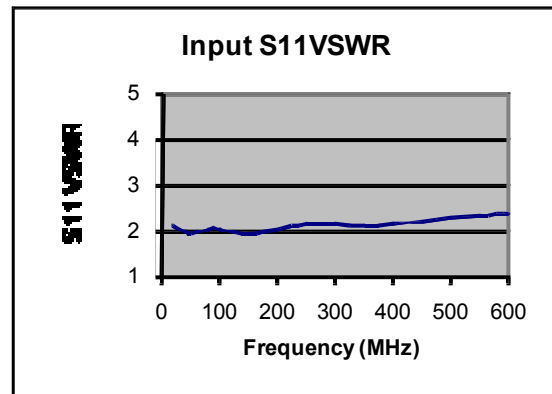
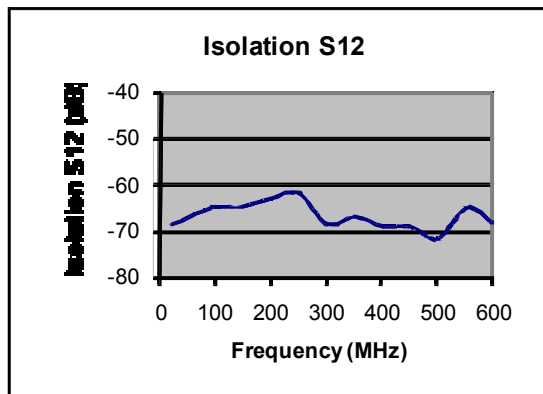
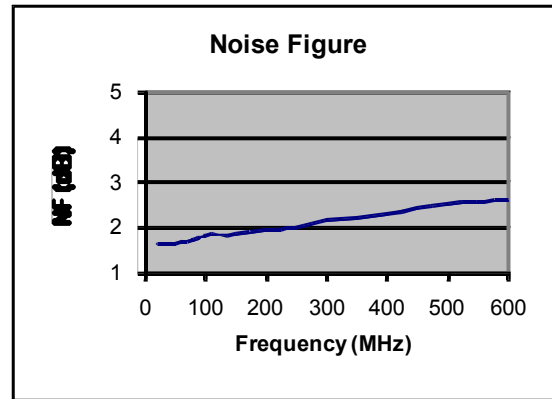
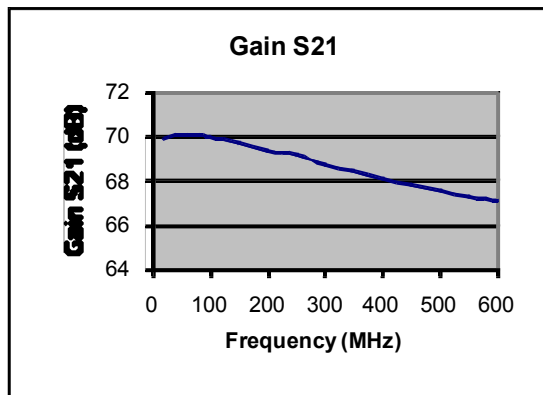
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	20		600
Gain (S21) f = 20MHz	dB		70.0	
f = 300MHz	dB	67.0	68.5	
f = 600MHz	dB		67.0	
Gain Flatness	dB		± 1.5	
Output Power P_{1dB}	dBm		+18	
Saturated Output Power P_{Sat}	dBm		+20	
Output Third Order Intercept IP3	dBm		+32	
Noise Figure	dB		2.2	3.0
Reverse Isolation (S12) @300MHz	dB		-68	
VSWR-Input (S11)	ratio:1	2.1@20MHz	2.1@300MHz	2.4@600MHz
VSWR-Output (S22)	(unitless)	1.6@20MHz	1.5@300MHz	1.5@600MHz
DC Power Supply - voltage	V	11	12	15
DC Power Supply - current	mA		140	
Operating Temperature	°C	-40		+85
Size (RF/DC feedthrough excluded)	Inch	1.79 (L) x 1.10 (W) x 0.45 (H)		
Weight	Oz	1.4		

01/15

HD30512

20 – 600 MHz Low Noise Amplifier

Typical Performance @+25 °C



HD30512

20 – 600 MHz Low Noise Amplifier

Typical Performance @+25 °C

