

HD23458

DC - 3000MHz RF Amplifier

Features

- Frequency Range: 10-3000MHz
- Gain: 18dB
- P_{1dB}: +20dBm
- IP3: +33dBm
- Noise Figure: 3.3dB
- DC Power: 12V
- SMA Connector

Performance measured @ 2000MHz

Description

HD23458 is a wideband Low Power RF Amplifier operates with frequency range from 10MHz to 3000MHz.



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

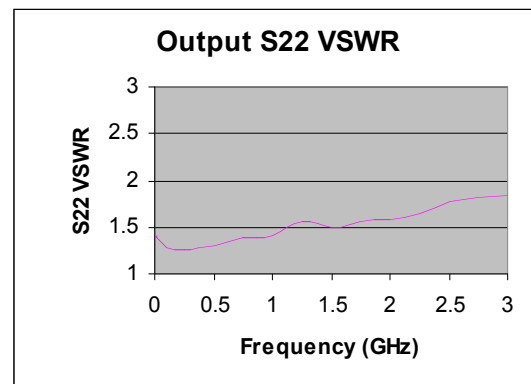
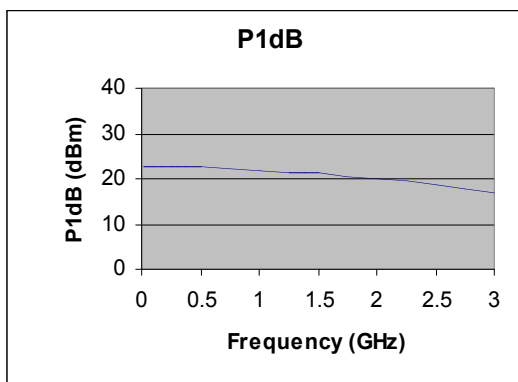
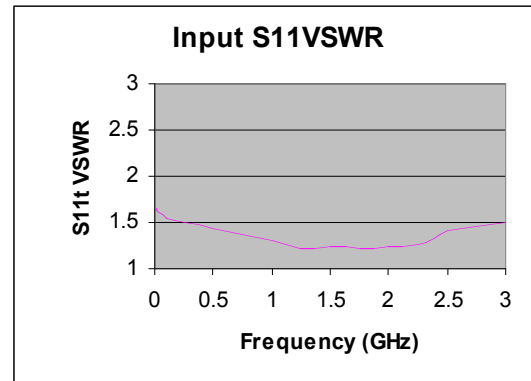
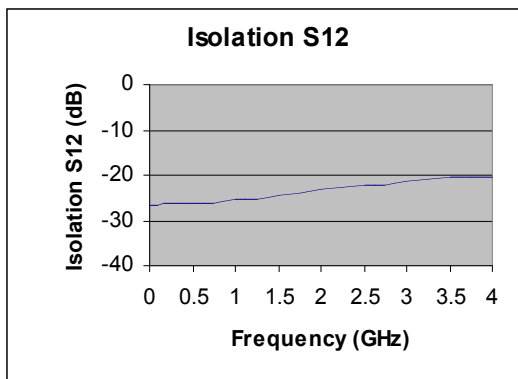
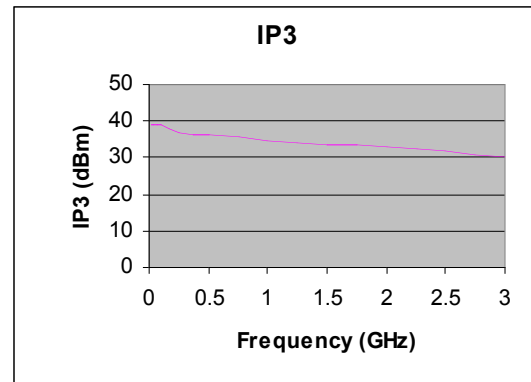
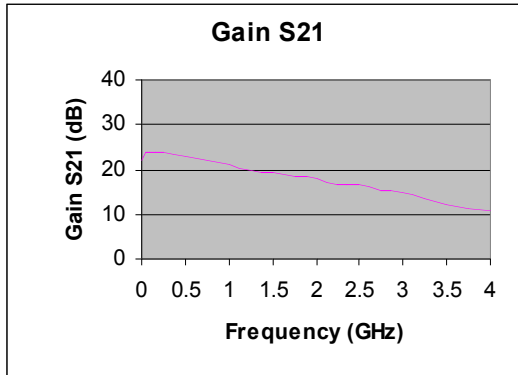
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		3000
Gain	f = 100MHz		23	
	f = 2000MHz		18	
	f = 2500MHz		15	
P _{1dB}	f = 100MHz		+22.8	
	f = 2000MHz		+20.0	
	f = 2500MHz		+18.5	
IP3	f = 100MHz		+39	
	f = 2000MHz		+33	
	f = 2500MHz		+32	
Noise Figure f = 2000MHz	dB		3.3	
VSWR	f = 10-3000MHz			
	Input VSWR		1.7:1	
	Output VSWR		1.9:1	
DC Power Supply	V	9	12	15

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Supply Current	mA	115	
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Typical Performance @ +25 °C



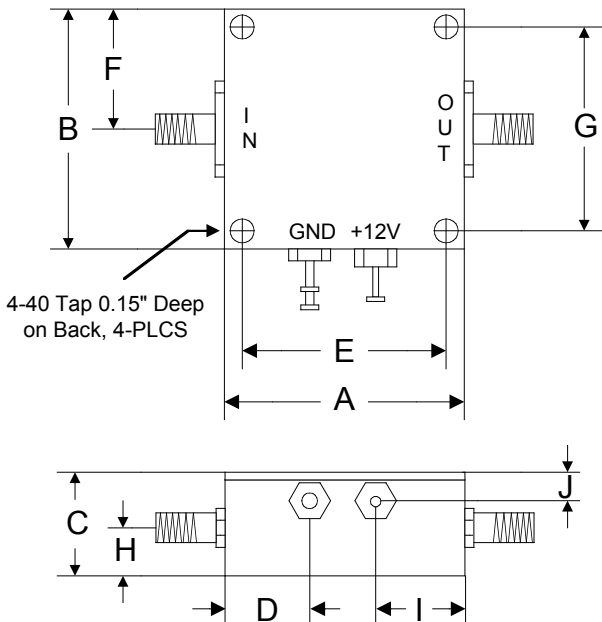
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+16dBm
Supply Voltage	+16V
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