

## HD25143

## 10KHz–1400Mhz Low Noise Amplifier

### Features

- Frequency Range: 0.01-1400MHz
- Gain: 40dB
- P<sub>1dB</sub>: +19dBm
- IP3: +32dBm
- Noise Figure: 2.7dB
- DC Power: 15V/120mA
- SMA Connector

Performance measured @ 500MHz



### Description

HD25143 is a 40dB gain wideband high dynamic range Low Noise Amplifier operates with frequency range from 10KHz to 1400MHz.

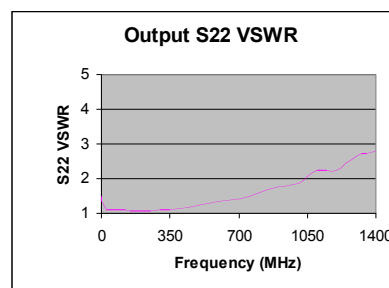
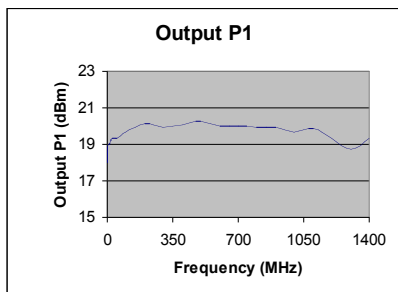
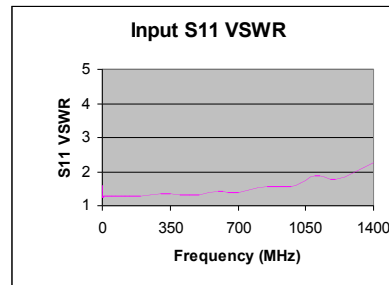
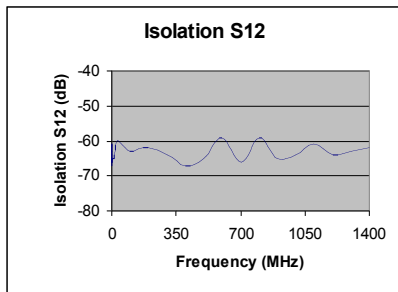
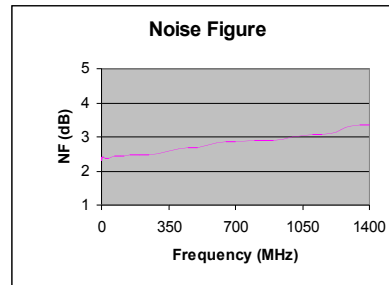
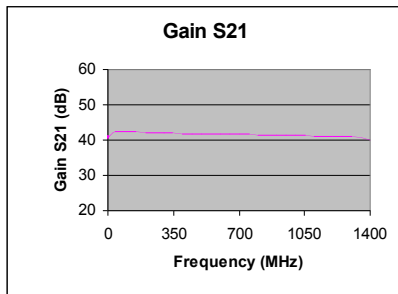
### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.01		1400
Gain				
f = 10KHz	dB		40	
f = 10MHz	dB		41	
f = 500MHz	dB		41	
f = 1000MHz	dB		41	
f = 1400MHz	dB		40	
P <sub>1dB</sub>	dBm		+19	
IP3	dBm		+32	
Noise Figure	dB		2.7	
Reverse Isolation	dB		-60	
VSWR				
Input VSWR			1.4:1	
Output VSWR			1.4:1	
DC Power Supply	V		15	
Supply Current	mA		120	

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**Typical Performance @ +25 °C**



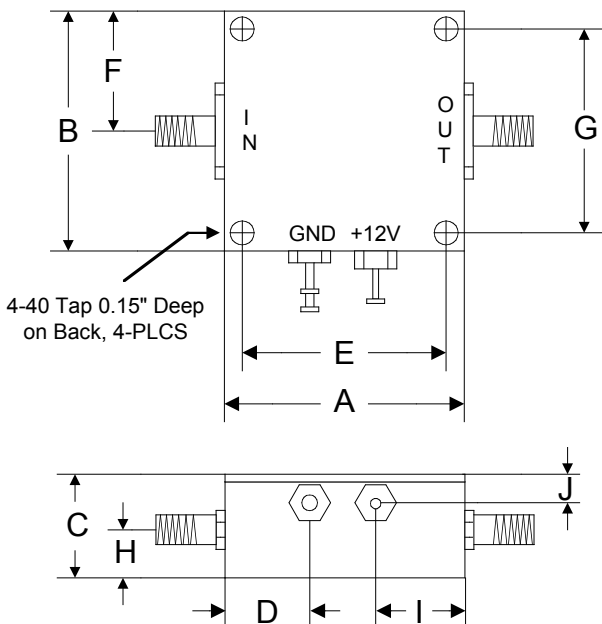
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+17V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °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