

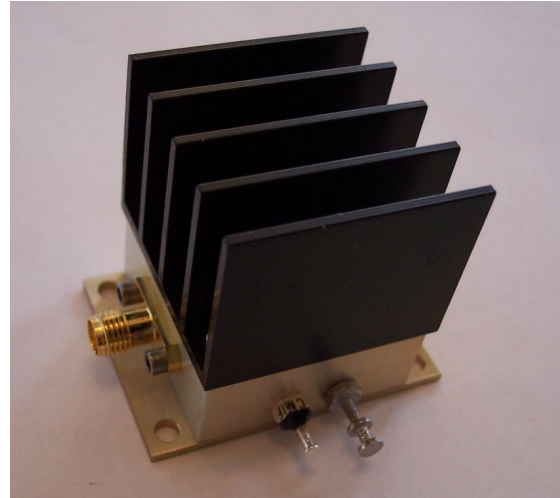
## HD24636

## 300 – 2500MHz RF Amplifier

### Features

- Frequency Range: 300 -2500MHz
- Gain: 24dB
- Gain Flatness: 2dB
- P<sub>1dB</sub>: +23dBm
- IP3: +34dBm
- Noise Figure: 5dB
- DC Power: 12V
- SMA Connector

Performance measured @ 1000MHz



### Description

HD24636 is a 24dB gain wideband RF Amplifier operates with frequency range from 300MHz to 2500MHz.

### Electrical Specifications @ +25 °C, Z<sub>S</sub> = Z<sub>L</sub> = 50 Ohms

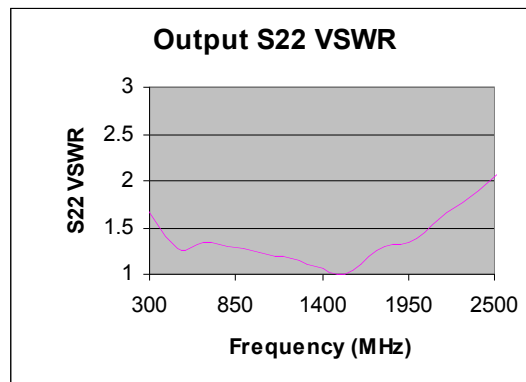
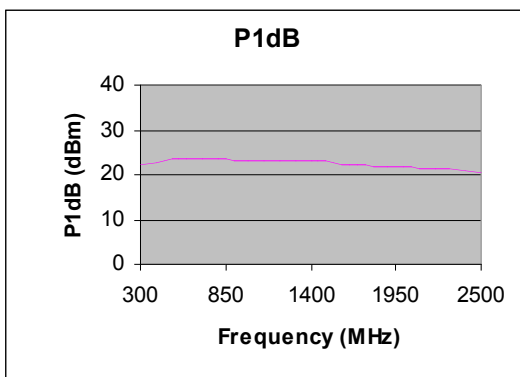
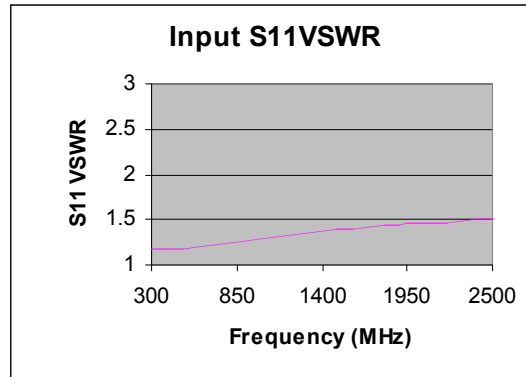
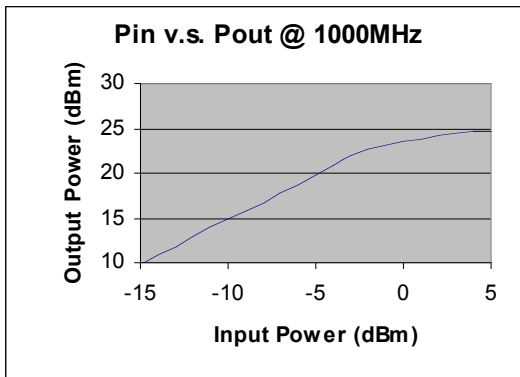
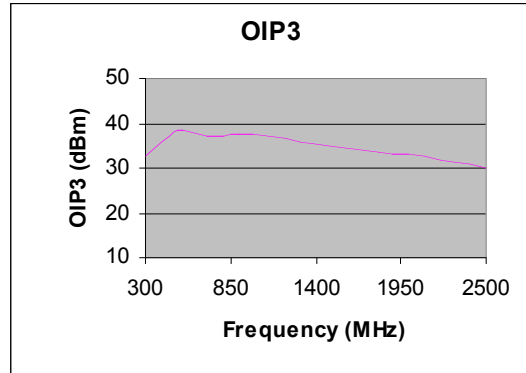
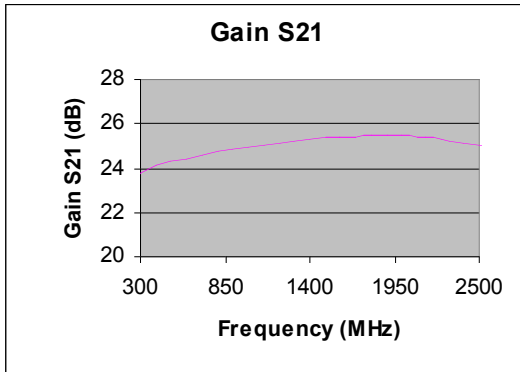
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	300		2500
Gain S <sub>21</sub>	dB		24	
Gain Flatness	dB		2	
P <sub>1dB</sub>	dBm		+23	
IP3	dBm		+34	
Noise Figure	dB		5	
VSWR    Input S <sub>11</sub> Output S <sub>22</sub>			1:1.5 1:1.3	
Reverse Isolation S <sub>12</sub>	dB		-50	
DC Power Supply	V	11	12	13
Supply Current	mA		200	
Operating Temperature	°C	-40		+70
Input/Output RF Connector		SMA Female		
Dimension (excluding SMA)	inch	1.75" x 1.25" x 1.56"		

**HD24636**

**300 – 2500MHz RF Amplifier**

Weight	OZ	2.1
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**Typical Performance @ +25 °C**



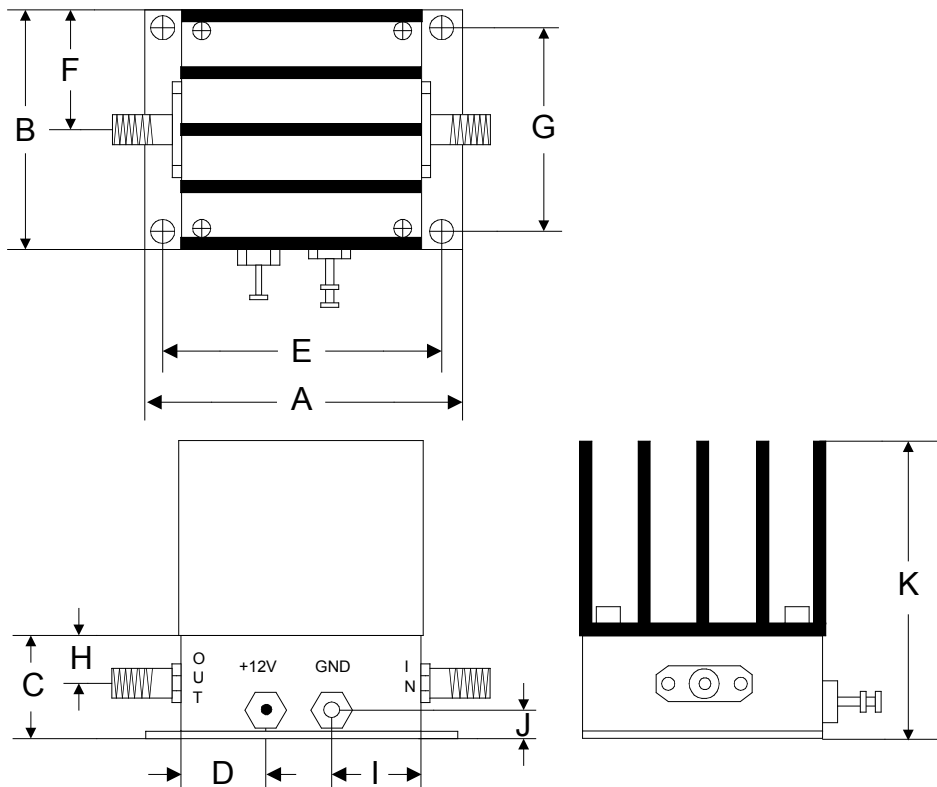
## HD24636

## 300 – 2500MHz RF Amplifier

### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
Supply Voltage	+16V
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	K
Inch	1.750	1.250	0.563	0.450	1.500	0.625	1.000	0.250	0.500	0.187	1.563
mm	44.45	31.75	14.29	11.43	38.10	15.88	25.40	6.35	12.70	4.76	39.70