

## 400MHz – 470MHz 1W RF Amplifier

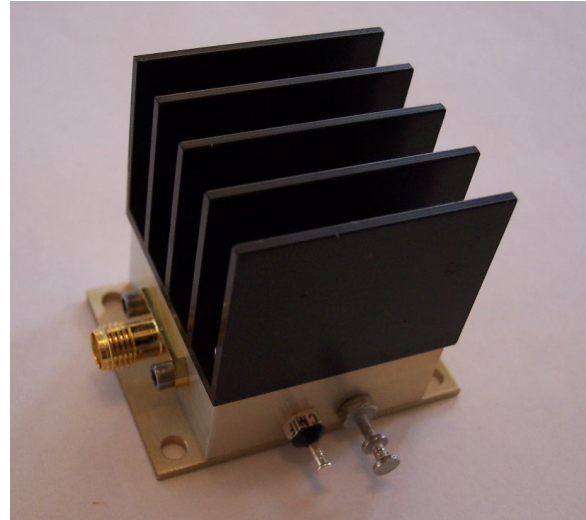
### Features

- Frequency Range: 400 - 470MHz
- Gain: 14dB
- P<sub>1dB</sub>: +30dBm
- IP3: +44dBm
- Noise Figure: 6.5dB
- Input VSWR: 1.3:1
- Output VSWR: 1.2:1
- DC Power: 12V/360mA
- SMA Connector

### Description

HD33764 is a 1W output 14dB Gain RF Amplifier operates with frequency range from 400MHz to 470MHz.

### Picture



### Electrical Specifications @ +25 °C, Z<sub>s</sub> = Z<sub>L</sub> = 50 Ω, V<sub>cc</sub>=+12V

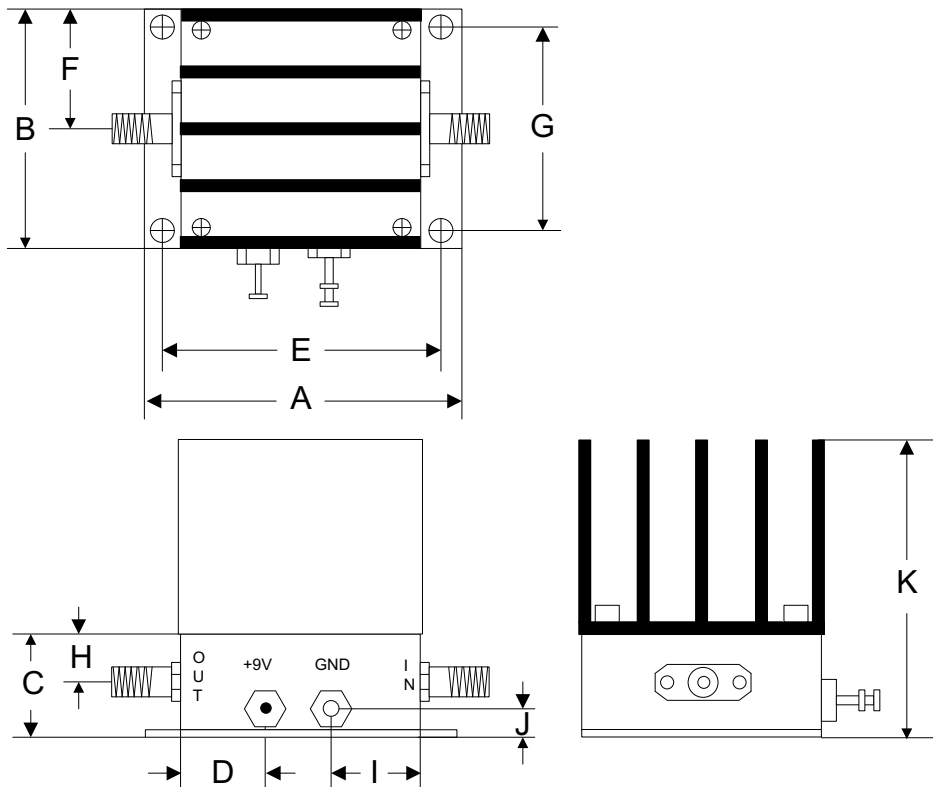
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	400		470
Gain	dB		14	
P <sub>1dB</sub>	dBm		+30	
IP3 at 430MHz	dBm		+44	
Noise Figure at 430MHz	dB		6.5	
Reverse Isolation	dB		-20	
VSWR f = 400-470MHz				
Input VSWR			1.3:1	
Output VSWR			1.2:1	
DC Power Supply	V		12	
Supply Current	mA		360	

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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+16dBm
Supply Voltage	+13V
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	K
<b>Inch</b>	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187	1.563
<b>mm</b>	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76	39.70