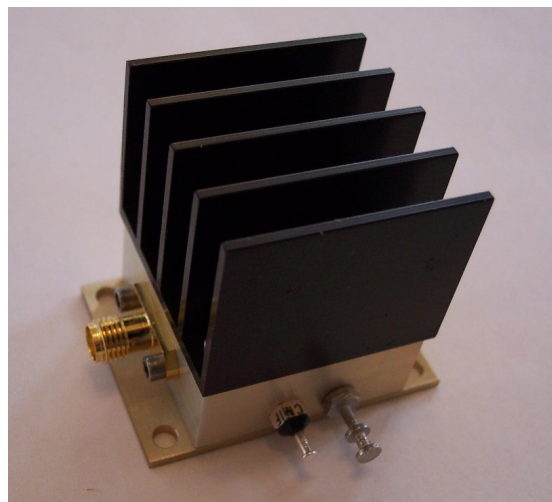


Features

- Frequency Range: 950-2150MHz
- Gain: 24dB
- Gain Flatness: 2dB
- P_{1dB} : +13dBm
- IP3: +34dBm
- Noise Figure: 5dB
- DC Power: 12V
- SMA Connector

Description

HD23457 is a 24dB gain wideband RF Amplifier operates with frequency range from 950MHz to 2150MHz.



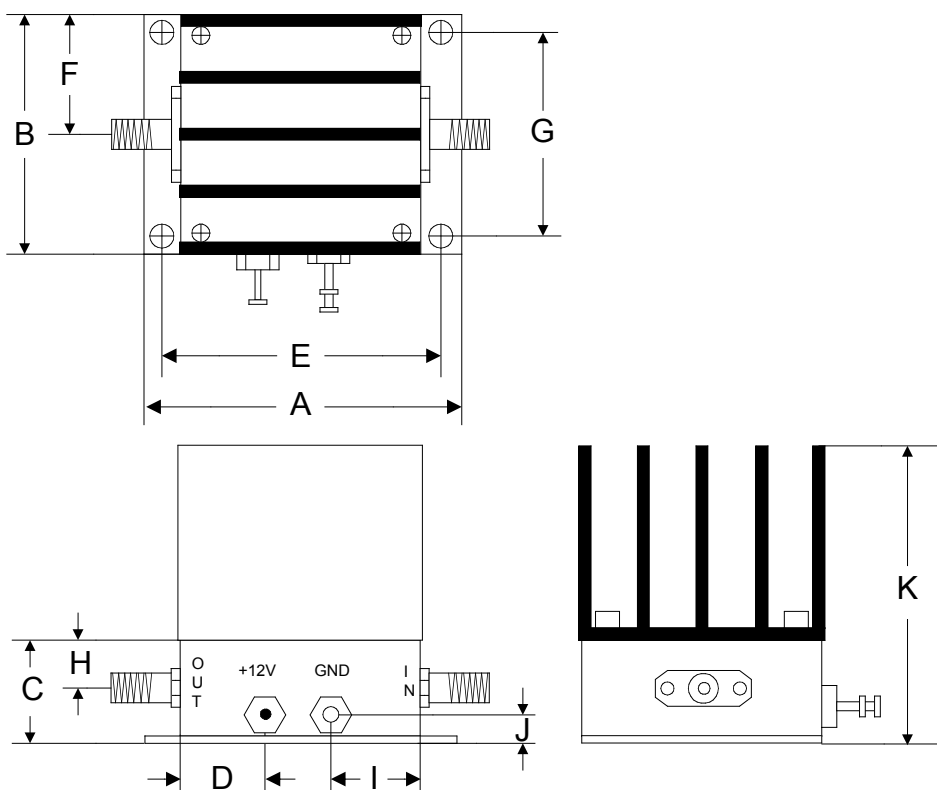
Electrical Specifications @ +25 °C, $Z_s = Z_L = 50 \text{ Ohms}$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	950		2150
Gain	dB	22	24	26
Gain Flatness	dB			2
P_{1dB}	dBm		+24	
IP3	dBm	+34		
Noise Figure	dB		5	
VSWR Input S_{11}			1:1.5	1:1.75
Output S_{22}			1:1.5	1:1.75
Input/Output Impedance	Ω	50		
DC Power Supply	V	11.4	12	12.6
Supply Current	mA		235	250
Operating Temperature	°C	0		+60
Input/Output RF Connector		SMA Female		
Dimension (excluding SMA)	inch	1.75" x 1.25" x 1.56"		
Weight	OZ	2.1		

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