

## HD23578

## 3000 – 5000MHz Low Noise Amplifier

### Features

- Frequency Range: 3000-5000MHz
- Gain: 20dB
- P<sub>1dB</sub>: +4.5dBm
- IP3: +15dBm
- Noise Figure: 2dB
- DC Power: 7-24V
- SMA Connector

Performance measured @ 4000MHz



### Description

HD23578 is a wideband Low Noise Amplifier operates with frequency range usable from 3000MHz to 5000MHz.

### Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	3000		5000
Gain	f = 3000MHz		23	
	f = 4000MHz		20	
	f = 5000MHz		17.5	
P <sub>1dB</sub>	f = 3000MHz		+4.0	
	f = 4000MHz		+4.3	
	f = 5000MHz		+4.0	
IP3	f = 4000MHz		+15	
Noise Figure	f = 3000MHz		1.7	
	f = 4000MHz		2.0	
	f = 5000MHz		2.2	
VSWR	f = 4000MHz			
	Input VSWR		1.8:1	
	Output VSWR		1.1:1	
DC Power Supply	V	7	12	24
Supply Current	mA		20	

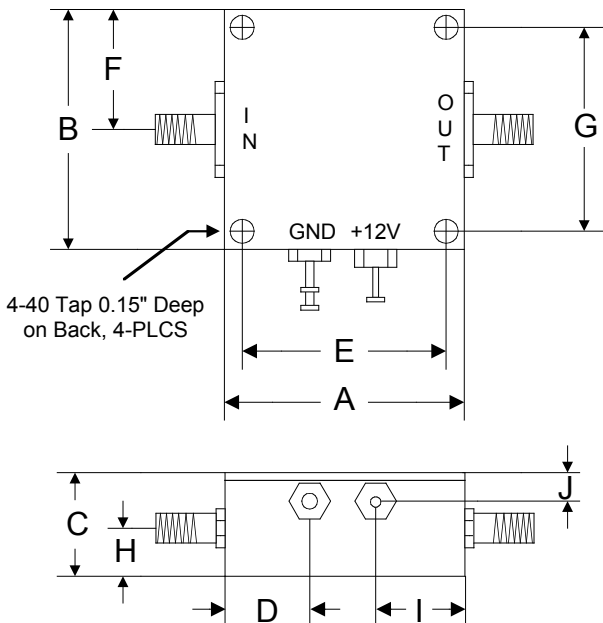
**HD23578**

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**Absolute Maximum Ratings**

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+25V
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
<b>Inch</b>	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
<b>mm</b>	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76