

HD23578

3000 – 5000MHz Low Noise Amplifier

Features

- Frequency Range: 3000-5000MHz
- Gain: 20dB
- P_{1dB}: +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	dB		23	
f = 4000MHz	dB		20	
f = 5000MHz	dB		17.5	
P _{1dB} f = 3000MHz	dBm		+4.0	
f = 4000MHz	dBm		+4.3	
f = 5000MHz	dBm		+4.0	
IP3 f = 4000MHz	dBm		+15	
Noise Figure f = 3000MHz	dB		1.7	
f = 4000MHz	dB		2.0	
f = 5000MHz	dB		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	

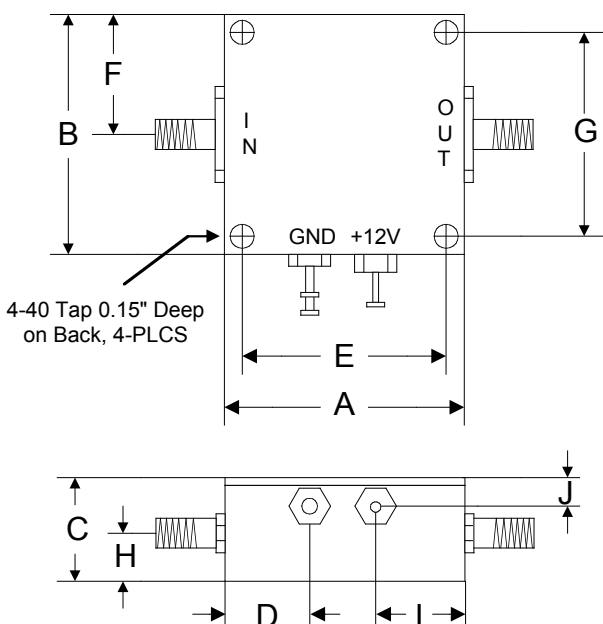
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Absolute Maximum Ratings

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
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