

HD24650

1MHz – 30MHz RF Amplifier

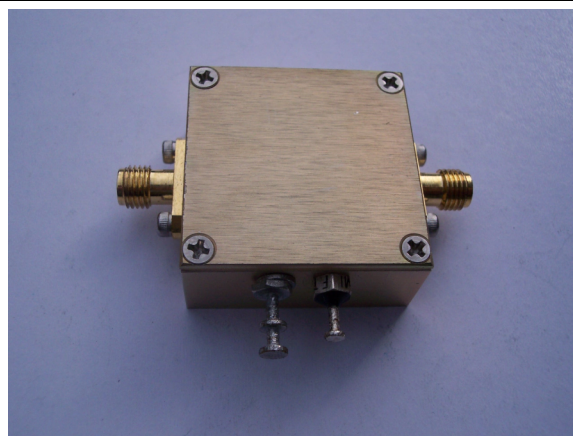
Features

- Frequency Range: 1 - 30MHz
- Gain: 10dB
- P_{1dB} : +10dBm
- IP3: +20dBm
- Noise Figure: 4dB
- DC Power: 12V
- SMA Connector

Performance measured @ 15MHz

Description

HD24650 is a 10dB gain, RF Amplifier operates with frequency range from 1MHz to 30MHz.



Electrical Specifications @ +25 °C, $Z_s = Z_L = 50 \Omega$, $V_{cc} = 12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1		30
Small Signal Gain $f = 1\text{MHz}$	dB		10	
$f = 15\text{MHz}$	dB		10	
$f = 30\text{MHz}$	dB		10	
P_{1dB}	dBm		+10	
IP3	dBm		+20	
Noise Figure	dB		4.0	
Reverse Isolation	dB		-30	
VSWR $f = 1\text{-}30\text{MHz}$				
Input VSWR			1.3:1	2.0:1
Output VSWR			1.4:1	2.0:1
DC Power Supply	V	10	12	15
Supply Current	mA		60	
Size (Excluding SMA Connector)	inch	1.25" x 1.25" x 0.56"		
Weight	Oz.	1.5		

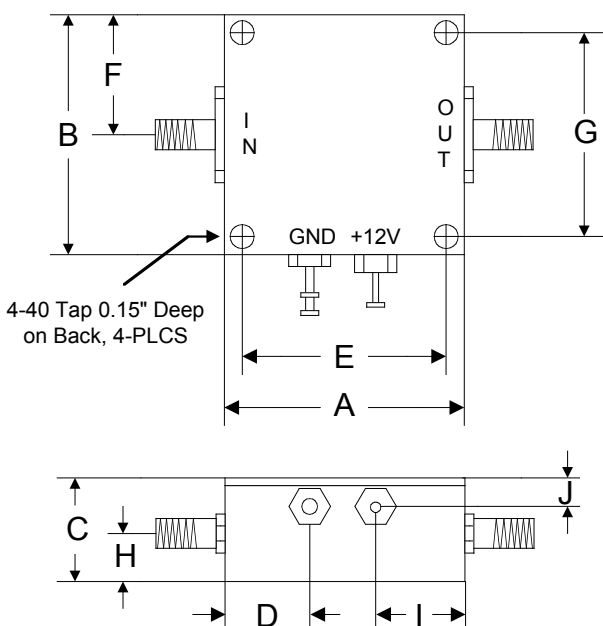
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+16V
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
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