

HD28428

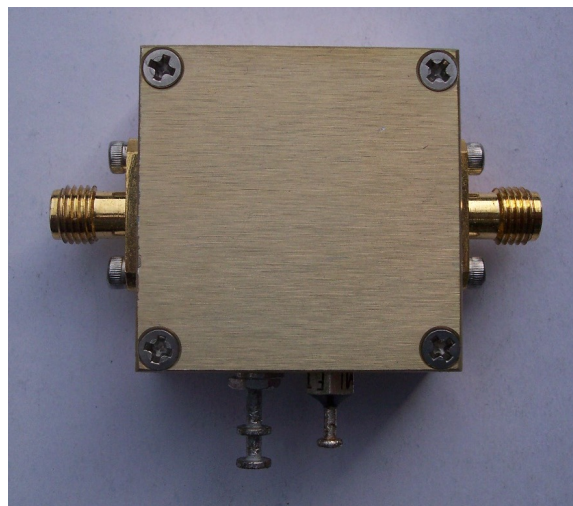
7.9 – 8.4 GHz RF Amplifier

Features

- Frequency Range: 7.9-8.4Hz
- Gain: 18dB
- Gain Flatness: ± 0.3 dB
- P_{1dB} : +20dBm
- IP3: +29dBm
- Noise Figure: 7.5dB
- DC Power: 5V/180mA
- SMA Connector

Description

HD28428 is a 100mW RF Amplifier operates with frequency range from 7.9 to 8.4GHz.



Electrical Specifications @ +25 °C, $Z_s = Z_L = 50 \Omega$, $V_{cc}=+5V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	7.9		8.4
Gain	dB		18	
Gain Flatness	dB		± 0.3	± 0.5
P_{1dB}	dBm		+20	
IP3	dBm		+29	
Noise Figure	dB		7.5	
Reverse Isolation	dB		-27	
VSWR Input VSWR Output VSWR			1.4:1 1.4:1	
DC Power Supply	V	4.75	5.0	5.25
Supply Current	mA		180	
Operating Temperature	°C	-40		+85
Size	In.	1.25"x1.25"x0.56"		
Weight	Oz.	1.7		

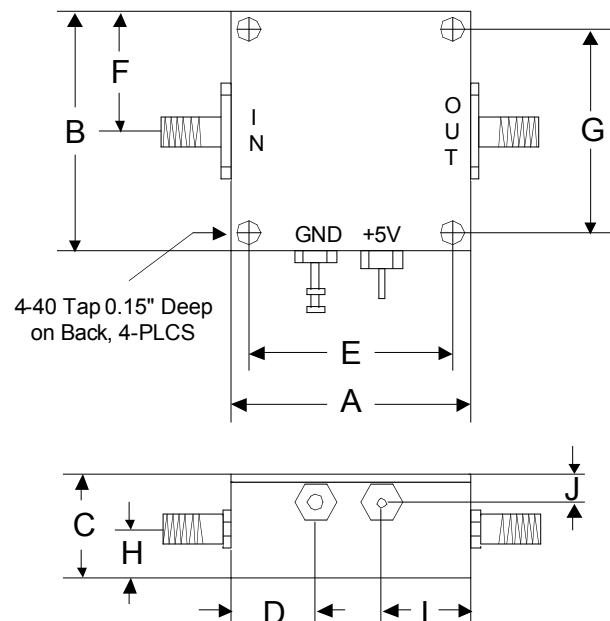
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7.9 – 8.4 GHz RF Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
Supply Voltage	+5.5V
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