

HD29075

5000–6000Mhz Low Noise Amplifier

Features

- Frequency Range: 5.0 – 6.0GHz
- Gain: 42dB
- P_{1dB} : +5dBm
- IP3: +15dBm
- Noise Figure: 1.8dB
- DC Power: 9V -18V
- SMA Connector

Performance measured @ 5.5GHz

Description

HD29075 is a High Gain Low Noise Amplifier operates with frequency range for 5.0 to 6.0GHz Band.



Electrical Specifications @ +25 °C, $Z_{in} = Z_{out} = 50 \Omega$, $V_{cc} = +12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	5.0		6.0
Gain $f = 5.0$ GHz	dB		44	
$f = 5.5$ GHz	dB		42	
$f = 6.0$ GHz	dB		38	
P_{1dB}	dBm		+5	
IP3	dBm		+15	
Noise Figure	dB		1.8	2.0
Reverse Isolation	dB		-50	
VSWR Input VSWR			1.4:1	
Output VSWR			1.2:1	
DC Power Supply	V	9	12	18
Supply Current	mA		35	

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Typical Performance @ +25 °C



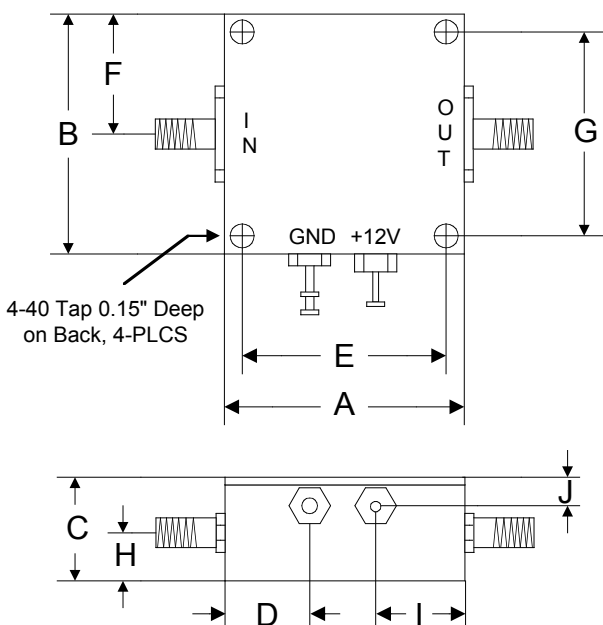
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Absolute Maximum Ratings

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