HD28058

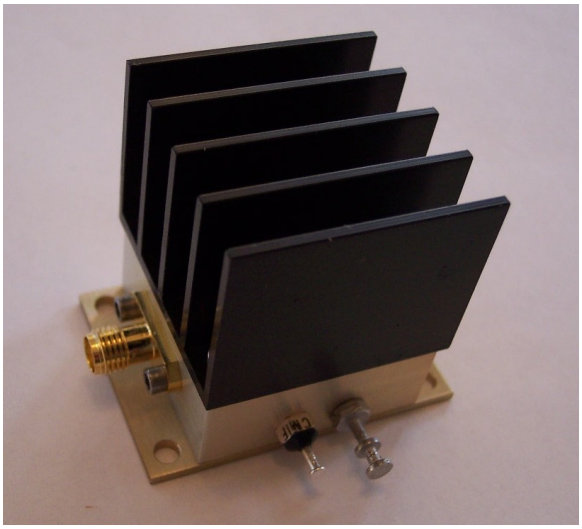
100-5000MHz 30dB Gain Medium Power RF Amplifier

Features

- Frequency Range: 100-5000MHz
- Gain: 30dB
- P_{1dB}: +20dBm
- IP3: +34dBm
- Noise Figure: 5dB
- DC Power: 12V
- SMA Connector

Performance measured @ 2000MHz

Picture



Description

HD28058 is a 30dB gain wideband Medium Power RF Amplifier with flat frequency response from 100MHz to 5000MHz.

Electrical Specifications @ +25 °C, $Z_S = Z_L = 50\ \Omega$, Vcc = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	100		5000
Gain f = 100MHz	dB		30	
f = 2000MHz	dB		30	
f = 5000MHz	dB		29	
P_{1dB} f = 100MHz	dBm		+23	
f = 2000MHz	dBm		+20	
f = 5000MHz	dBm		+11	
IP3 f= 2000MHz	dBm		+34	
Noise Figure f = 2000MHz	dB		5	
VSWR f = 500-4000MHz				
Input VSWR			1:1.3	
Output VSWR			1:2.3	

DC Power Supply	V	10	12	15
Supply Current	mA		170	

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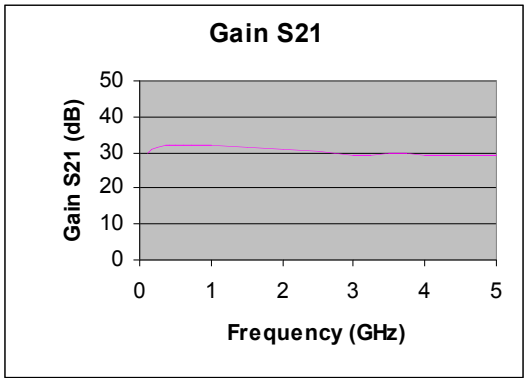
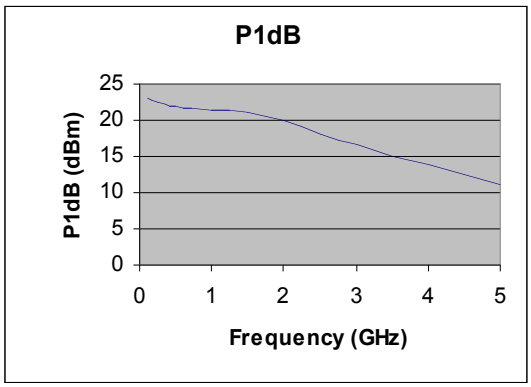
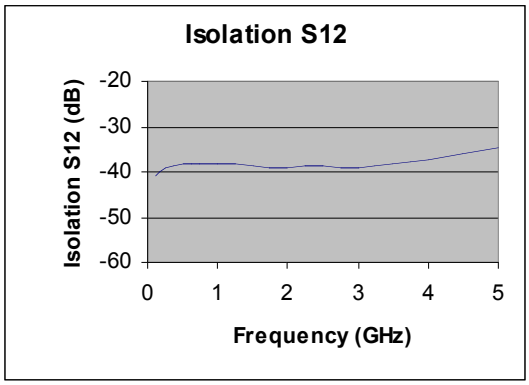
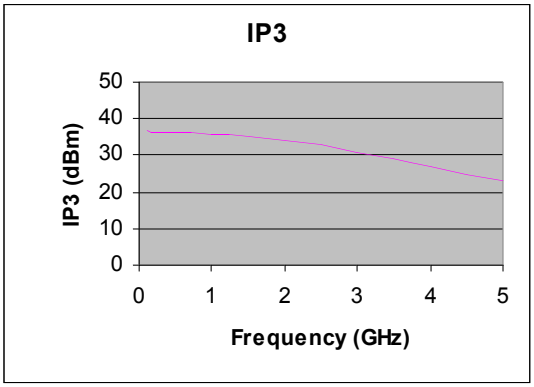
Typical Performance @ +25 °C









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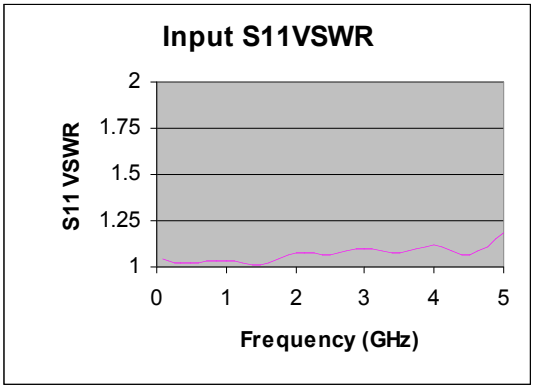

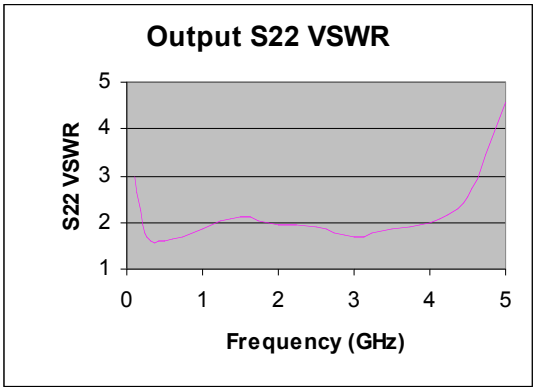

Absolute Maximum Ratings

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

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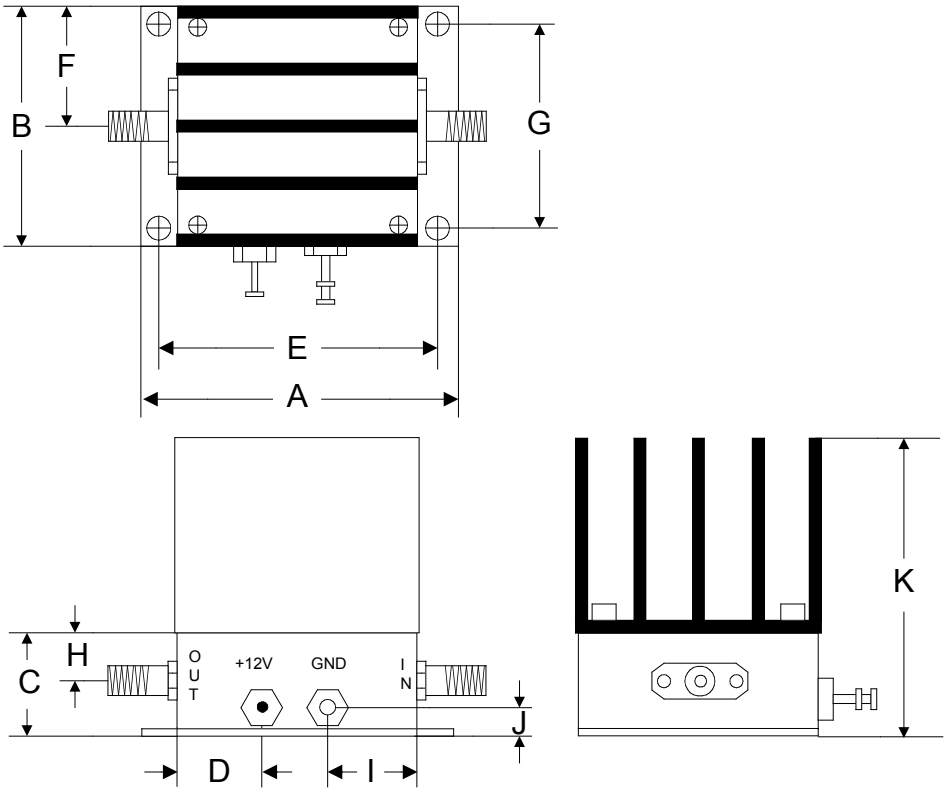

	A	B	C	D	E	F	G	H	I	J	K
Inch	1.750	1.250	0.563	0.450	1.500	0.625	1.000	0.250	0.500	0.187	1.563
mm	44.45	31.75	14.29	11.43	38.10	15.88	25.40	6.35	12.70	4.76	39.70