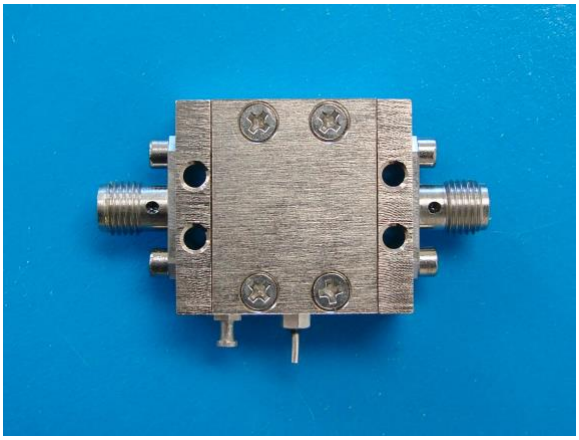
HD32880

0.01 – 8GHz Low Noise Amplifier

Features

- Frequency Range: 10MHz-8GHz
- Gain: 40dB
- P_{1dB}: +20dBm
- IP3: +30dBm
- Noise Figure: 2dB
- DC Power: +12V @ 160mA
- Internally Voltage Regulated
- RF Connector: SMA-Female

Photo



Description

HD32880 is a high performance Microwave Low Noise Amplifier, with standard frequency range of 10MHz to 8GHz.

Electrical Specifications @+25°C, Z_{in}=Z_{out}= 50 Ω, Vsupply = +12VDC

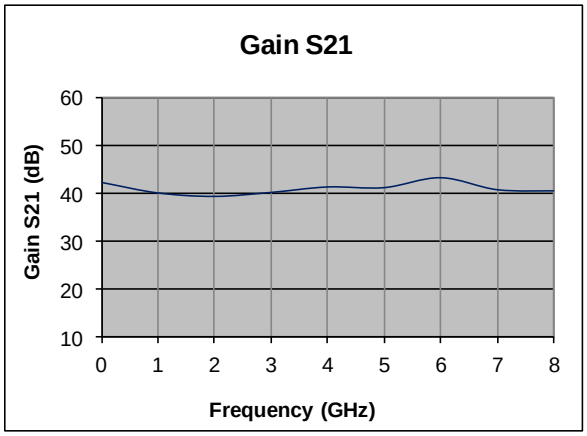
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	0.01		8
Gain (S21) f = 10MHz f = 4GHz f = 8GHz	dB dB dB		42 41 40	
Gain Flatness	dB		± 1.5	
Output Power P_{1dB}	dBm		+20	
Output Third Order Intercept IP3	dBm		+30	
Noise Figure @ 4GHz	dB		2.0	2.5
Reverse Isolation (S12) @ 4GHz	dB		-50	
VSWR-Input (S11) VSWR-Output (S22)			1.8:1 2.5:1	
DC Power Supply - voltage	V	9	12	15
DC Power Supply - current	mA		160	
Operating Temperature	°C	-40		+85
Size (RF/DC feedthru's excluded)	Inch	1.00 (L) x 0.90 (W) x 0.45 (H)		
Weight	Oz	0.6 (17 grams)		

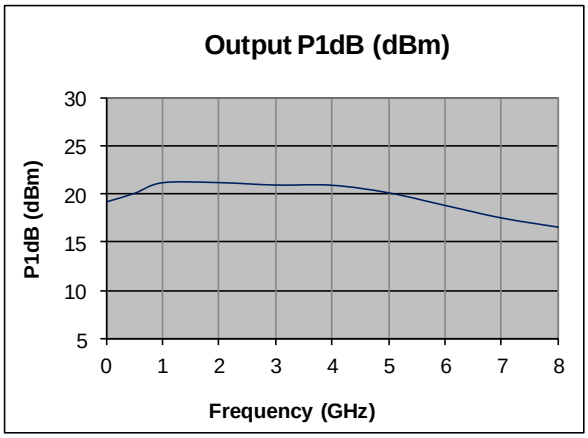
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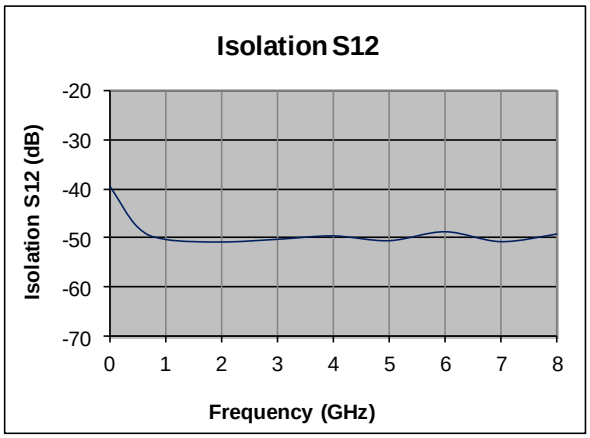
HD32880

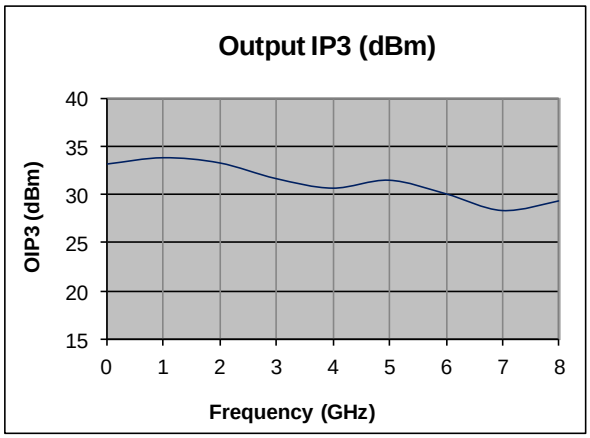
0.01 – 8GHz Low Noise Amplifier

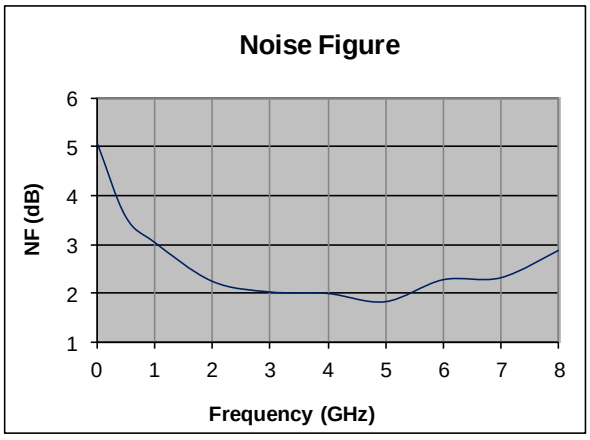
Typical Performance @+25 °C

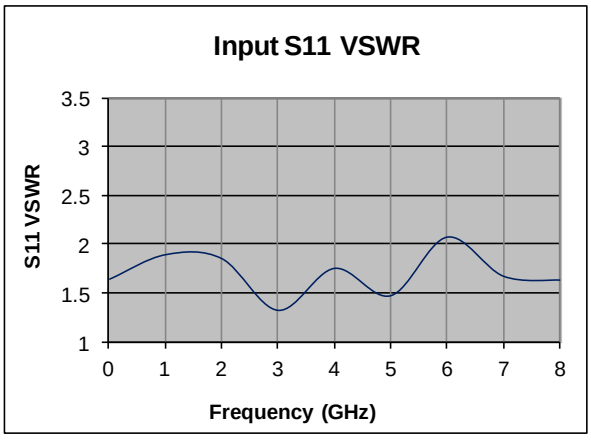








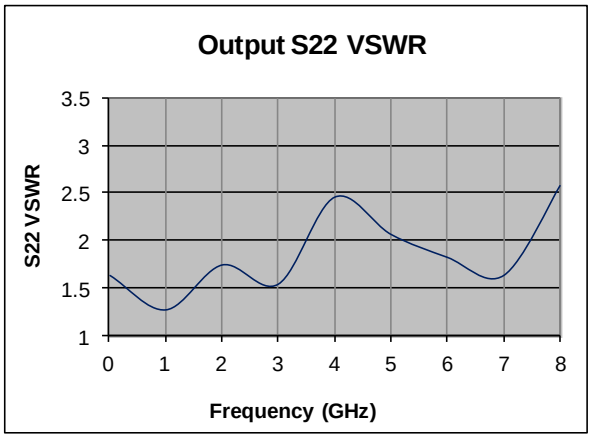


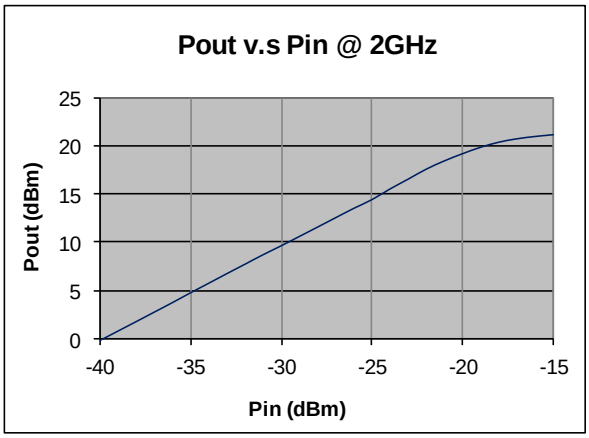


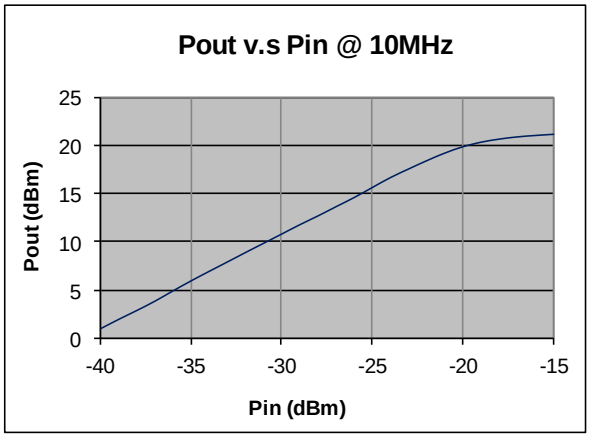
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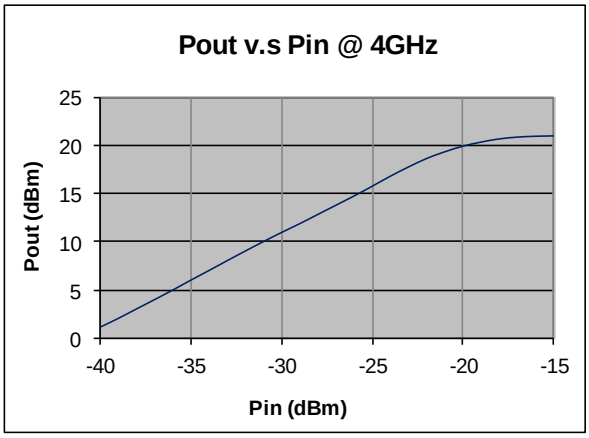
0.01 – 8GHz Low Noise Amplifier

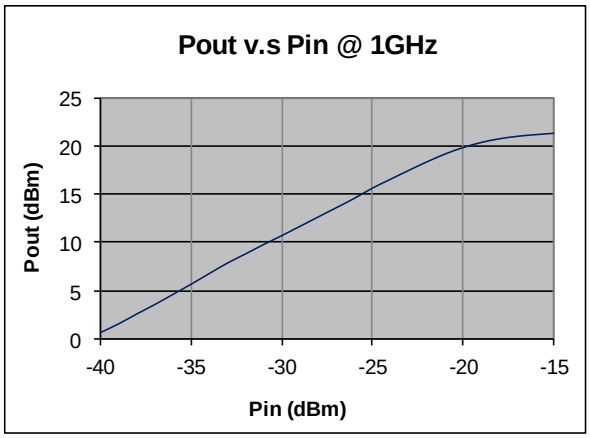
Typical Performance @+25 °C

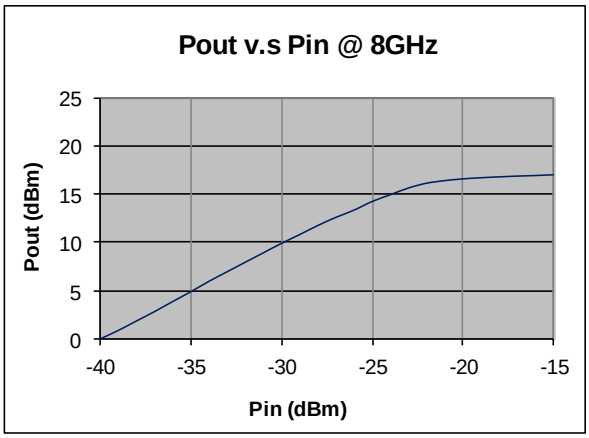












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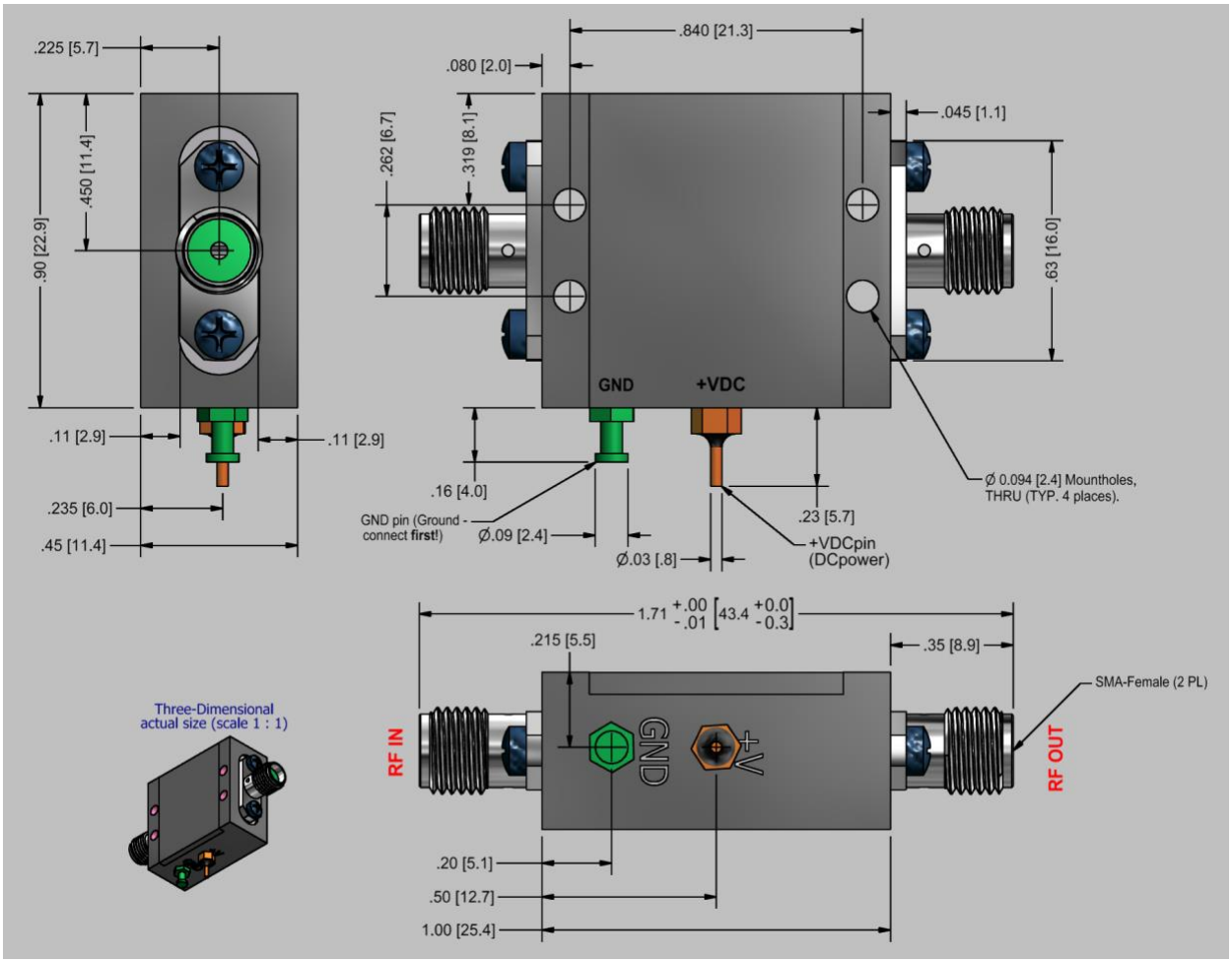
HD32880

0.01 – 8GHz Low Noise Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	-7dBm
Supply Voltage	+16V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline



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HD32880

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WARNING: MUST USE HEAT SINK IF CASE TEMPERATURE EXCEEDS 50 °C

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