



<b>HA3001</b>
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## General Description

The HA3001 is a broadband amplifier for medium power applications.

The high gain, low noise figure and high output power makes this device for a low noise driver amplifier in the frequency range from 2.0GHz to 4.0GHz.

The device operates from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

## Electrical Performance

Typical Data @25 °C

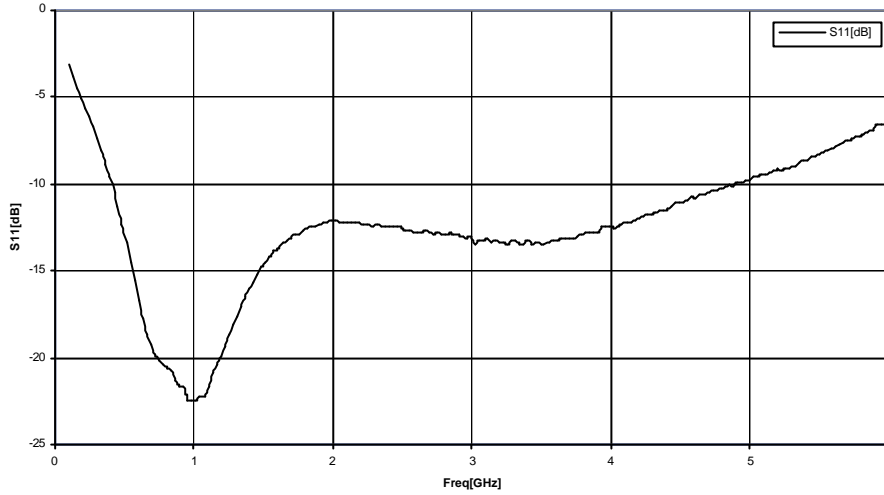
Parameter	Min	Typ	Max	Units
Frequency Range	2.0		4.0	GHz
Gain	38.0	39.0		dB
Gain Flatness		$\pm 1.3$	$\pm 1.5$	dB
Noise Figure		2.5	3.0	dB
Power Output@P <sub>1dB</sub>	27.0	28.0		dBm
Input VSWR		1.8:1	2.0:1	
Output VSWR		1.8:1	2.0:1	
Temperature Range	-40		+85	°C
DC Voltage	10.0	12.0	14.0	V
DC Current		600.0		mA
Package	M101			
Size	55 x 32 x 11			mm

**!!! Cold Plate +85°C max. REQUIRED!!!**

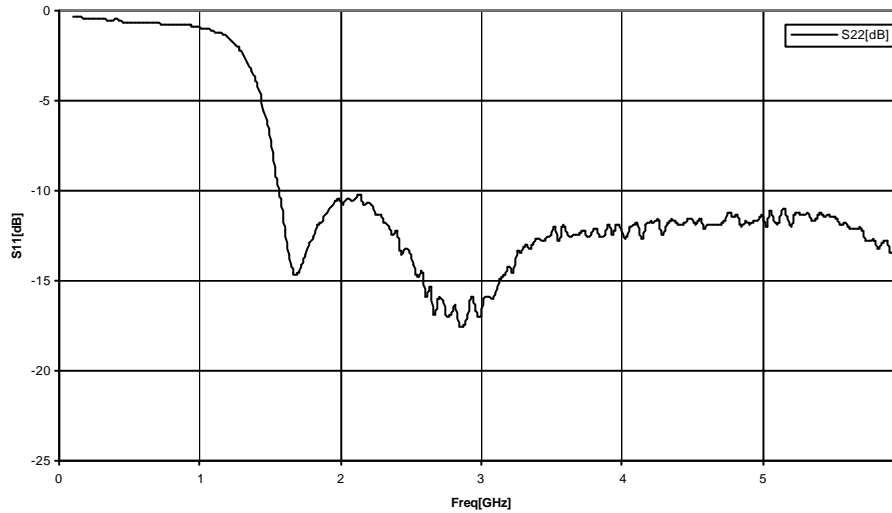
Rev. 1.0

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Input Reflection vs. Frequency

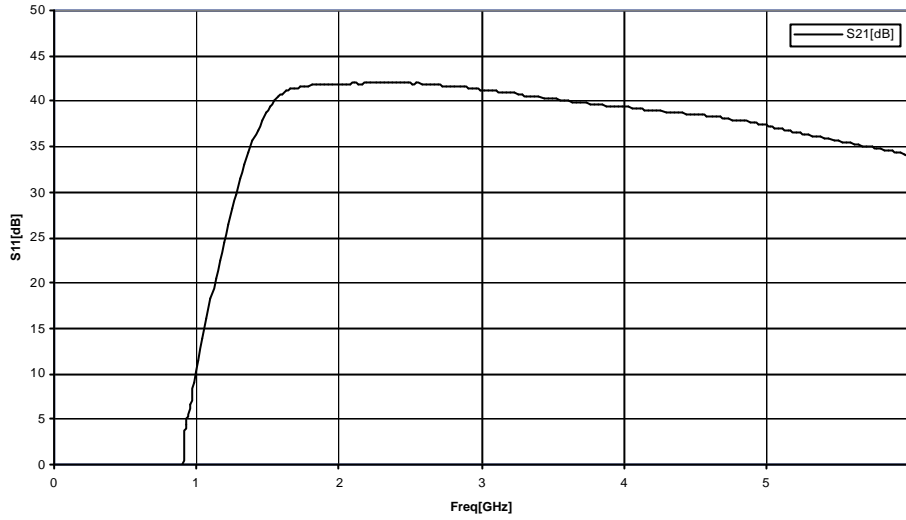


Output Reflection vs. Frequency

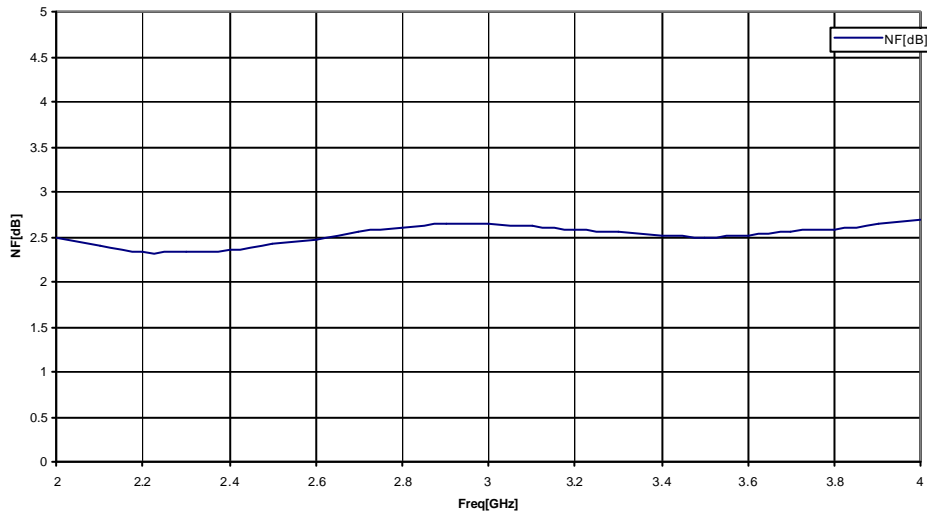


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Gain vs. Frequency



Noise Figure vs. Frequency



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Output Power vs. Input Power

