

## VGA Series

## 20-500MHz Variable Gain Amplifier

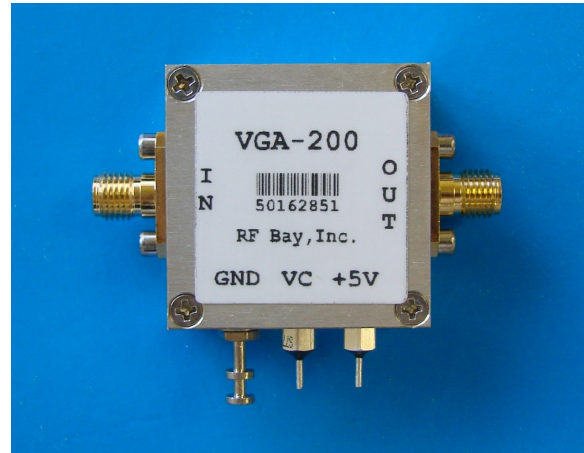
### Features

- Frequency Range: 20-500MHz
- Gain Control Range: 65dB
- P<sub>1dB</sub>: 0dBm
- Noise Figure: 3.5dB
- Suitable for IF Applications
- DC Power: 5V/40mA
- Tuning Voltage: 0-2.5V
- SMA Female Connector

### Description

VGA-200 is a 20-500MHz Variable Gain Amplifier operates on a single 5V power supply with 65dB gain control range.

### Picture



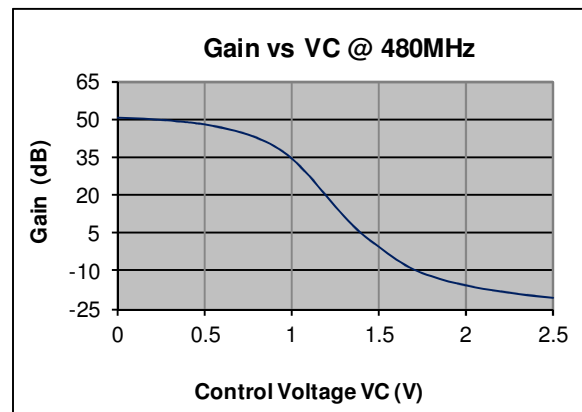
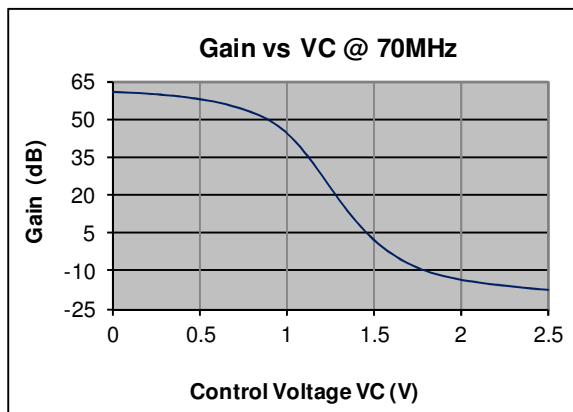
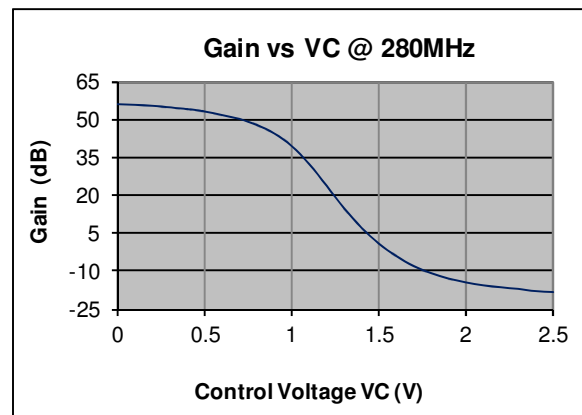
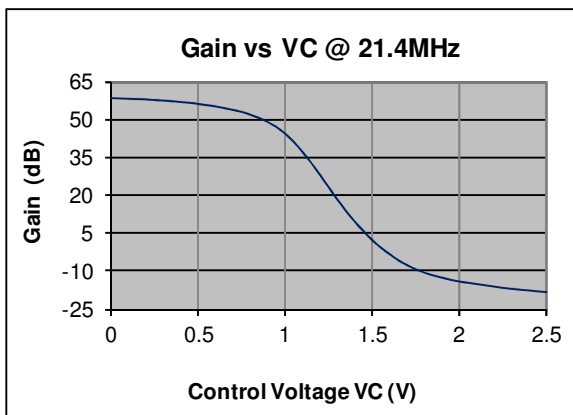
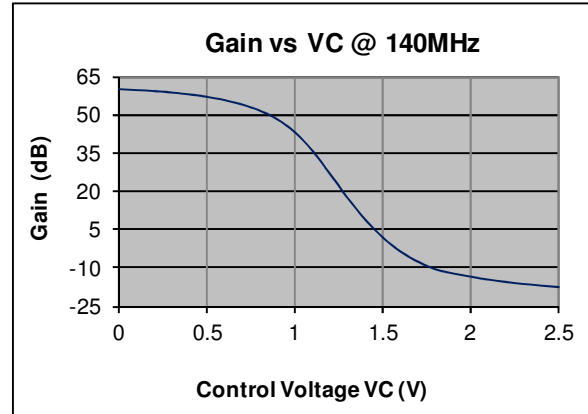
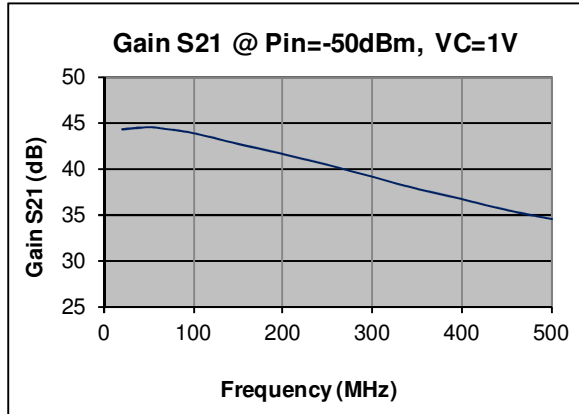
### Electrical Specifications @ +25 °C, Z<sub>in</sub>=Z<sub>out</sub>= 50 Ω, V<sub>supply</sub>=+5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	20		500
Maximum Gain	dB	50		
Minimum Gain	dB	-15		
Gain Flatness	dB		±5.0	
Gain Control Range	dB	65	70	
Output Power P <sub>1dB</sub>	dBm		0	
Control Voltage Range	V	0		2.5
Gain Control Slope		Negative		
Reverse Isolation S12	dB		-55	
Noise Figure, 50 Ohm VC=0V	dB		3.5	
Input VSWR			1.5:1	
Output VSWR			1.6:1	
DC Power Supply	V	4.5	5.0	5.5
Supply Current	mA		40	50

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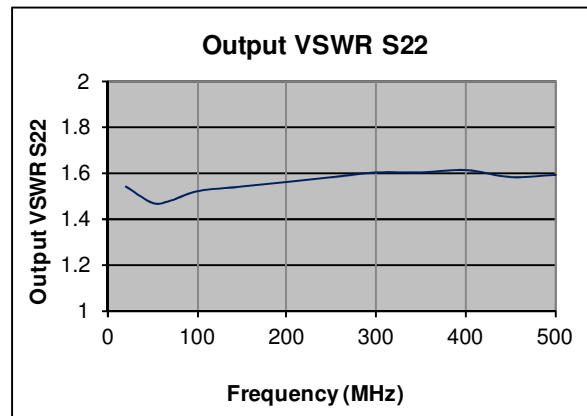
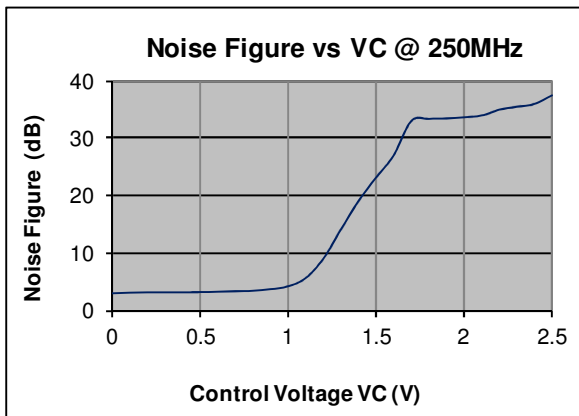
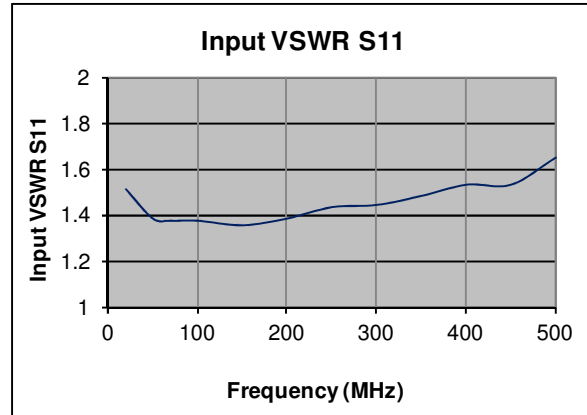
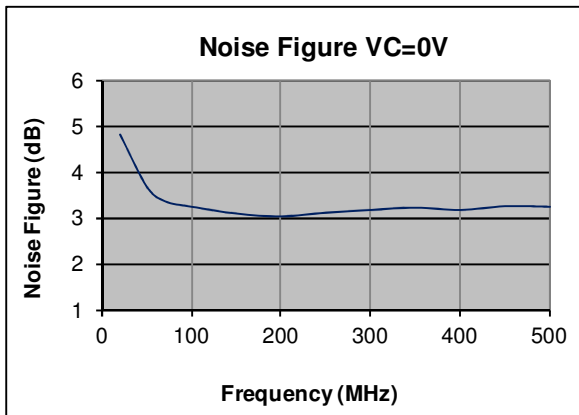
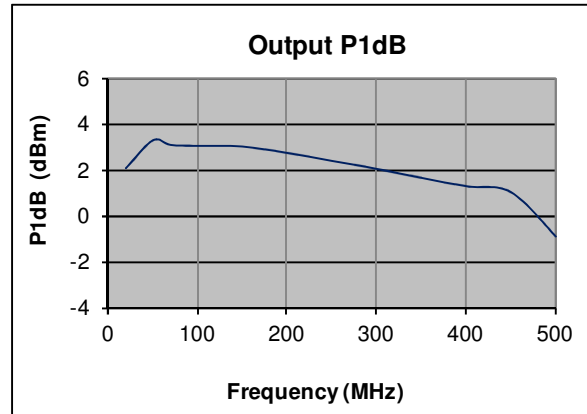
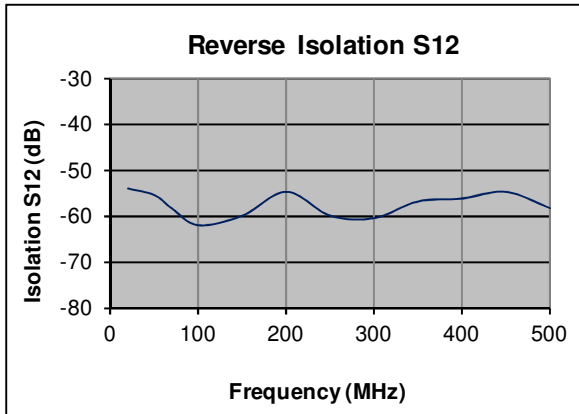
### Typical Performance @ 25°C



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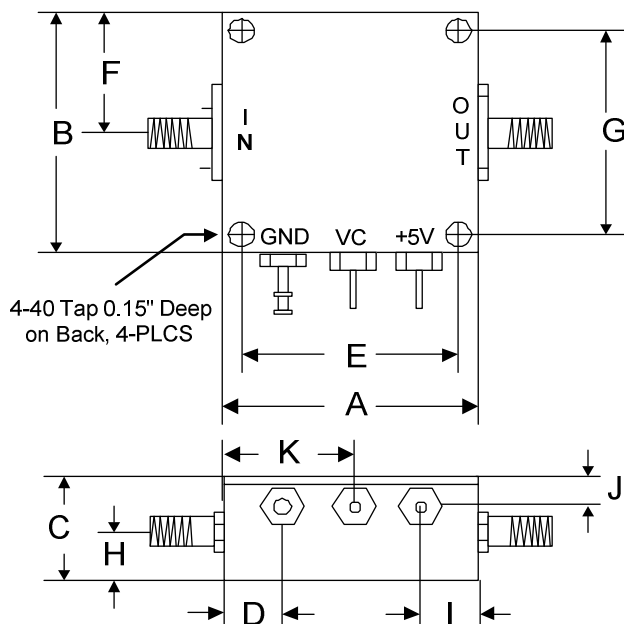
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
Supply Voltage	+6V
Control Voltage VC	+3V
RF Input Power	+17dBm
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	K
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187	0.625
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76	15.88