

VGA Series

500-2000MHz Variable Gain Amplifier

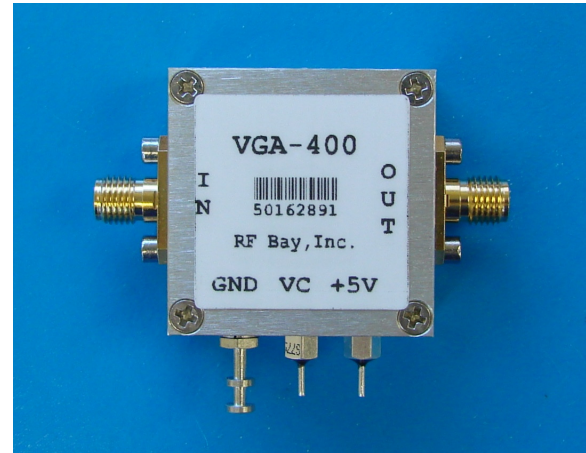
Features

- Frequency Range: 500-2000MHz
- Gain Control Range: 30dB
- P_{1dB}: +8dBm
- Noise Figure: 3dB
- DC Power: 5V/50mA
- Tuning Voltage: 0-5V
- SMA Female Connector

Description

VGA-400 is a 500-2000MHz Variable Gain Amplifier operates on a single 5V power supply with 30dB gain control range.

Picture



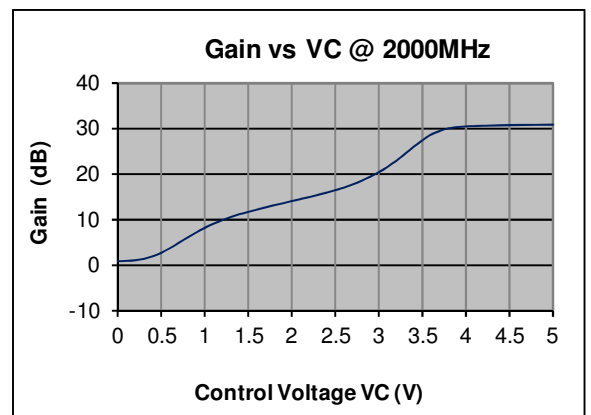
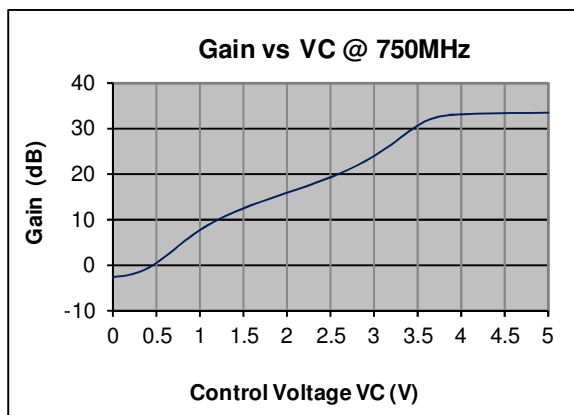
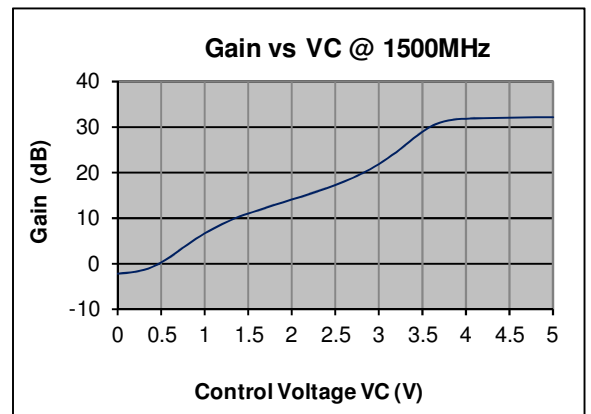
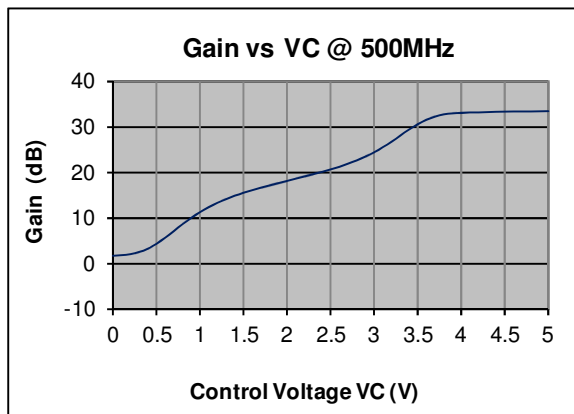
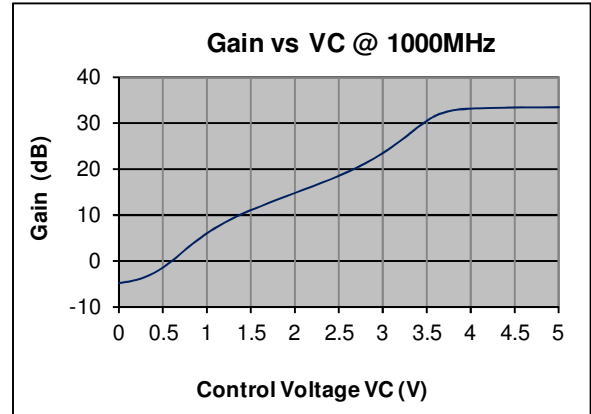
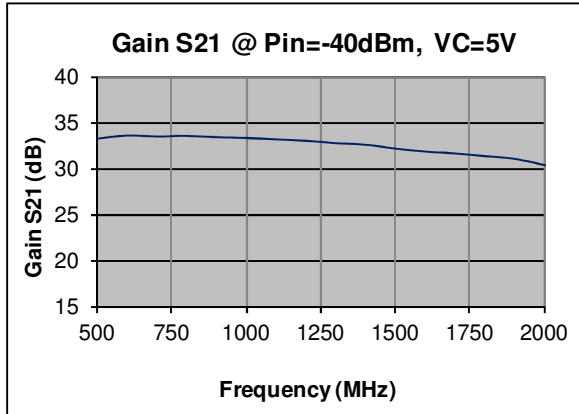
Electrical Specifications @ +25 °C, Z_{in}=Z_{out}= 50 Ω, V_{supply}=+5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	500		2000
Maximum Gain	dB		30	
Minimum Gain	dB		-3	
Gain Flatness	dB		±1.5	
Gain Control Range	dB	30		
Output Power P _{1dB}	dBm		+8	
Control Voltage Range	V	0		5
Gain Control Slope		Positive		
Reverse Isolation S12	dB		-43	
Noise Figure, 50 Ohm VC=5V	dB		3	
Input VSWR			1.5:1	
Output VSWR			1.8:1	
DC Power Supply	V	4.5	5.0	5.5
Supply Current	mA		50	60

VGA Series

500-2000MHz Variable Gain Amplifier

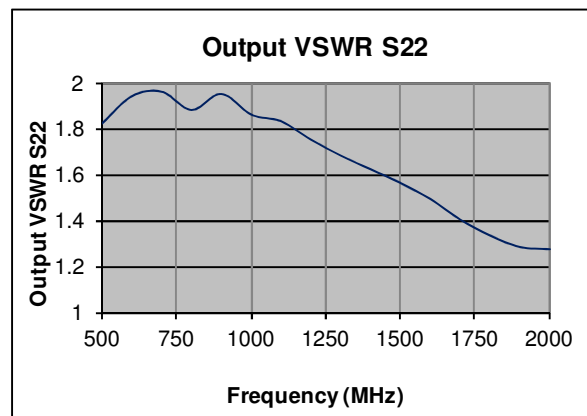
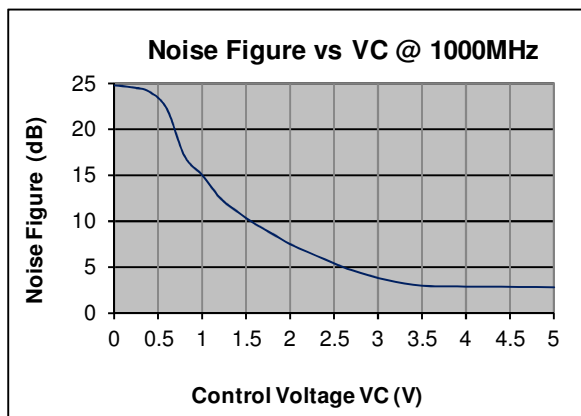
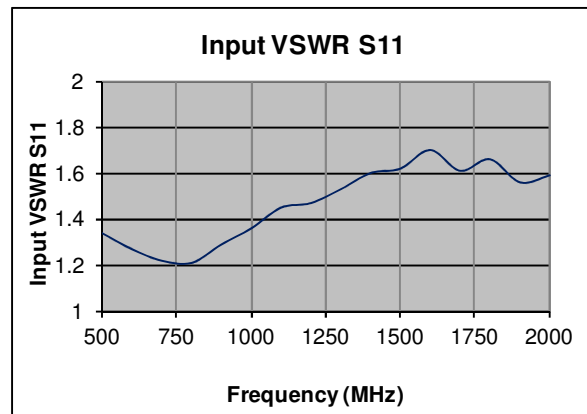
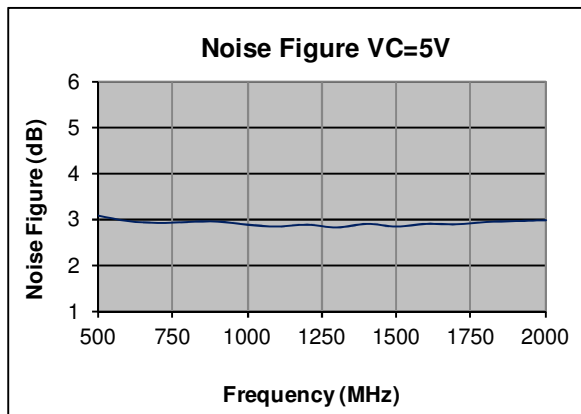
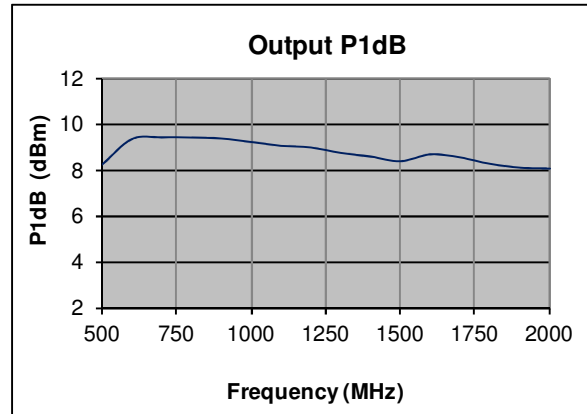
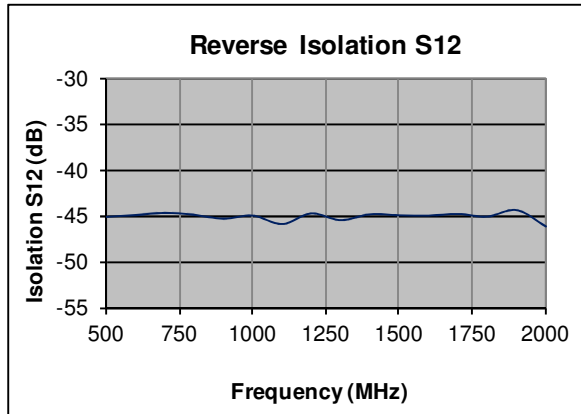
Typical Performance @ 25°C



VGA Series

500-2000MHz Variable Gain Amplifier

Typical Performance @ 25°C



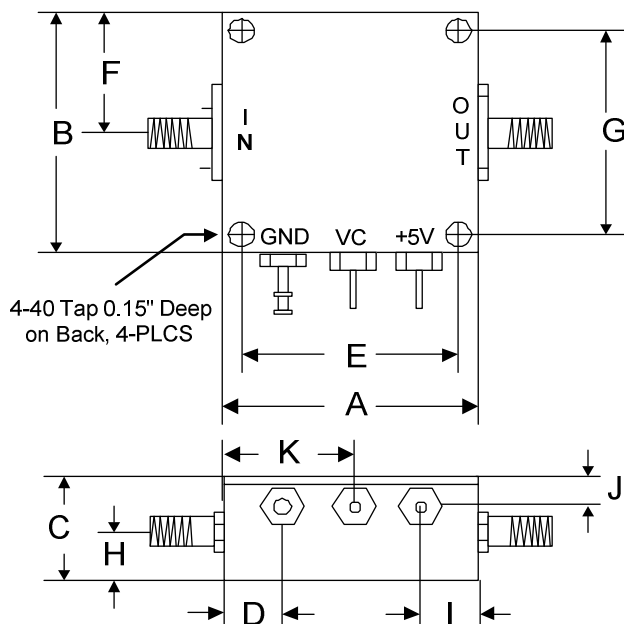
VGA Series

500-2000MHz Variable Gain Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
Supply Voltage	+6V
Control Voltage VC	+6V
RF Input Power	+21dBm
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