

MGA Series

30 – 3000MHz RF Amplifier

Features

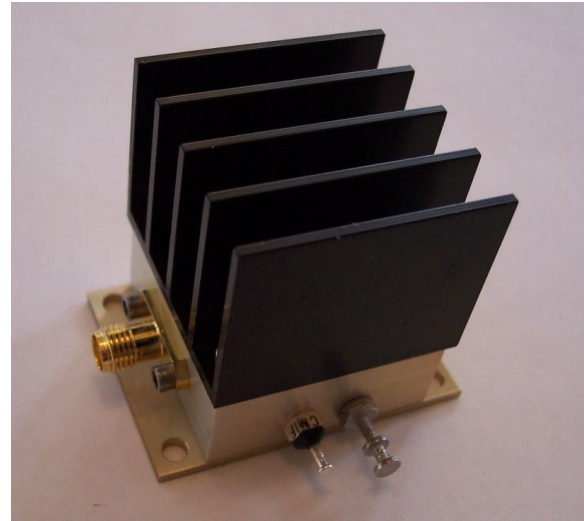
- Frequency Range: 30 - 3000MHz
- Gain: 32dB
- P_{1dB}: +25dBm
- IP3: +38dBm
- Noise Figure: 3.8dB
- DC Power: 12V/220mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

Performance @ 1500MHz

Description

MGA-3-27 is a 300mW output RF Power Amplifier operates with frequency range from 30MHz to 3000MHz.

Picture



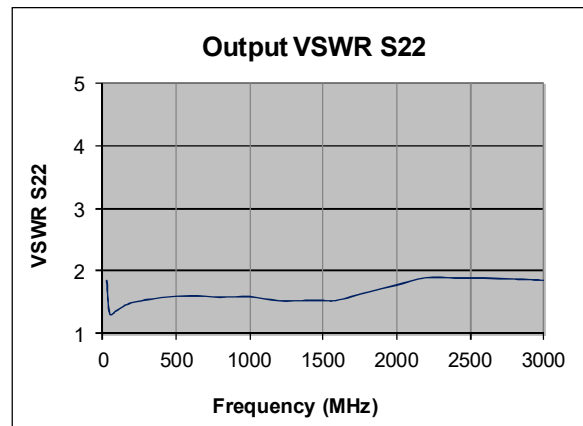
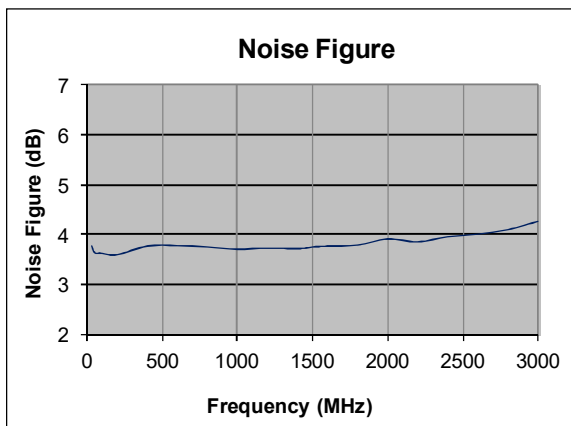
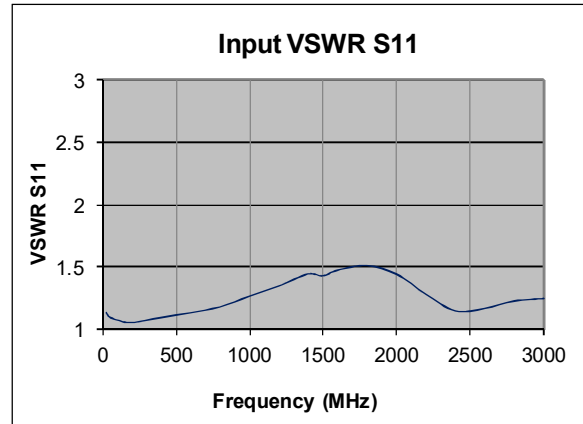
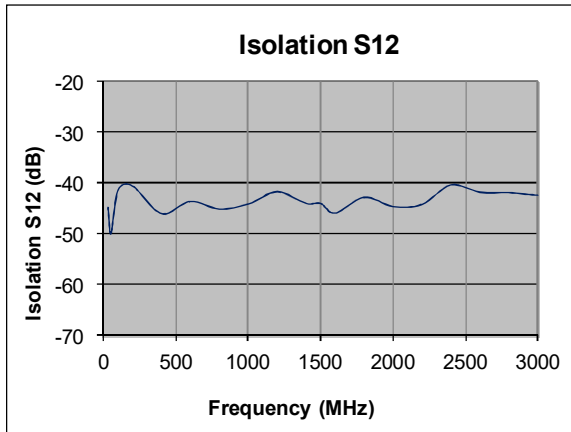
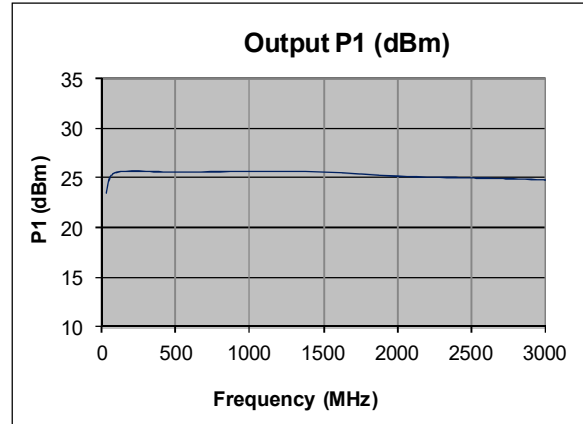
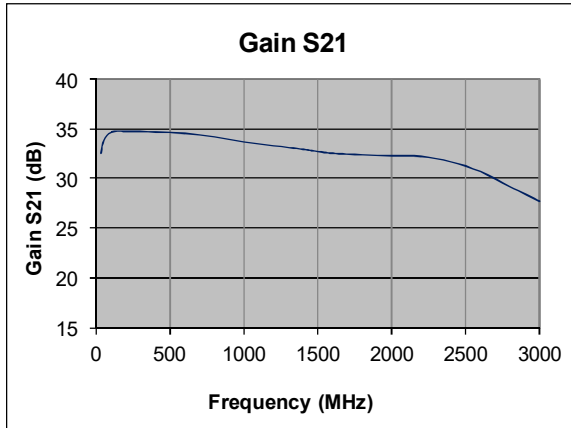
Electrical Specifications @ +25 °C, Z_{IN} = Z_{OUT} = 50 Ω, V_{SUPPLY}= +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	30		3000
Gain S21	f = 30MHz	dB	32.5	
	f = 1000MHz	dB	33.5	
	f = 1500MHz	dB	32.5	
	f = 2000MHz	dB	32.0	
	f = 2500MHz	dB	31.0	
	f = 3000MHz	dB	27.5	
P _{1dB}	dBm		+25	
IP3	dBm		+38	
Noise Figure at 1500MHz	dB		3.8	
Reverse Isolation S12	dB		-40	
VSWR	Input VSWR S11		1.5:1	
	Output VSWR S22		1.5:1	
DC Power Supply	V		12	15
Supply Current	mA		220	

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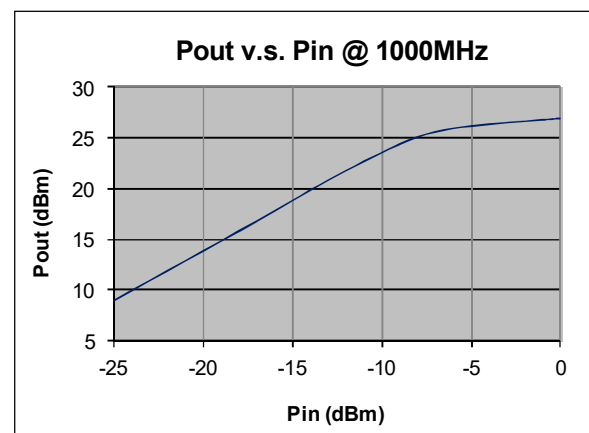
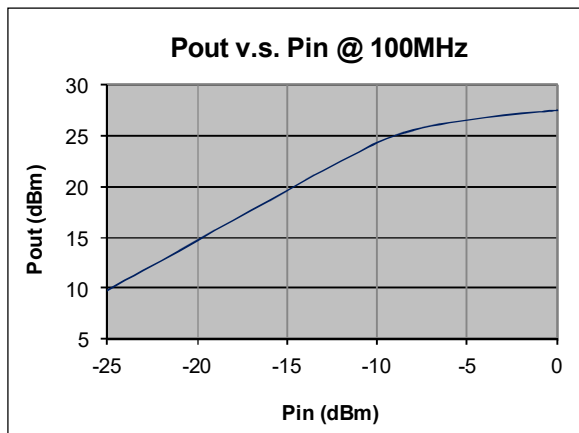
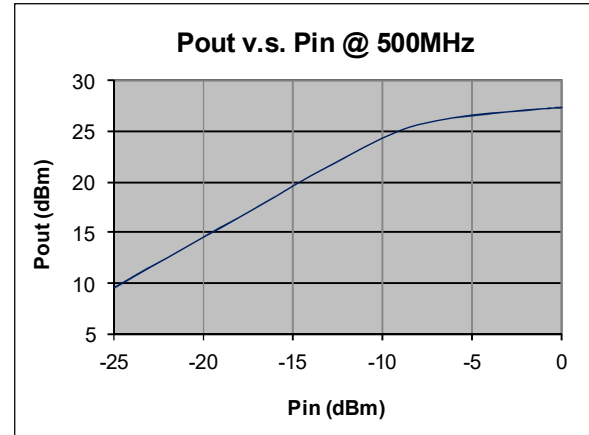
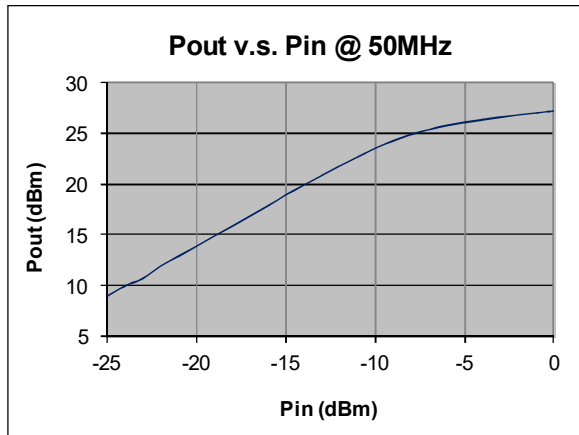
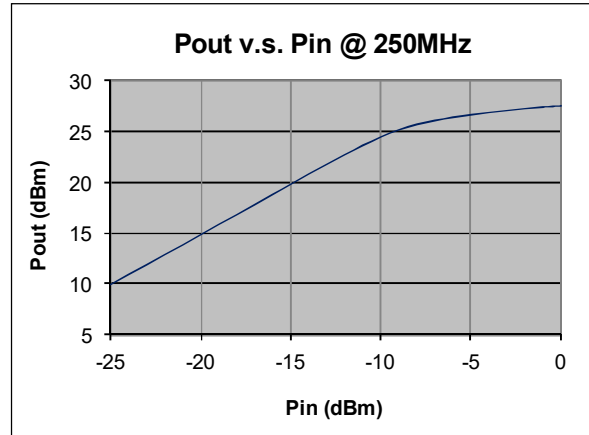
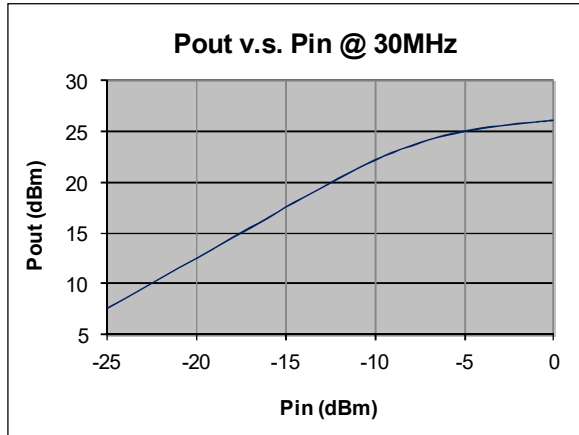
Typical Performance @ +25 °C



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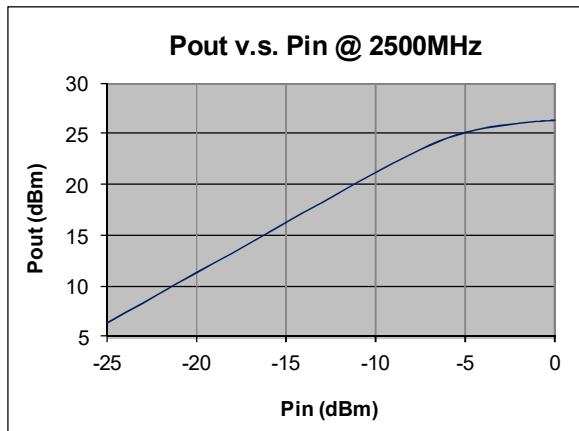
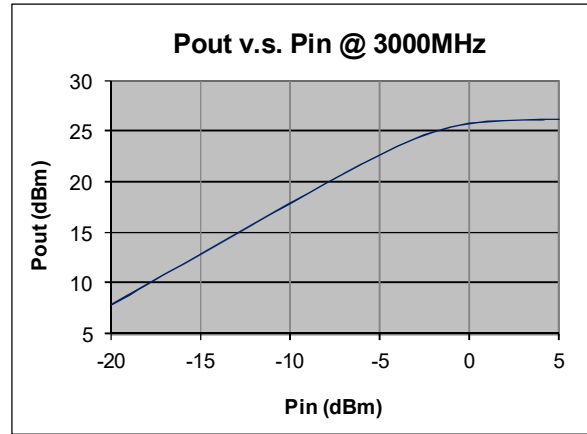
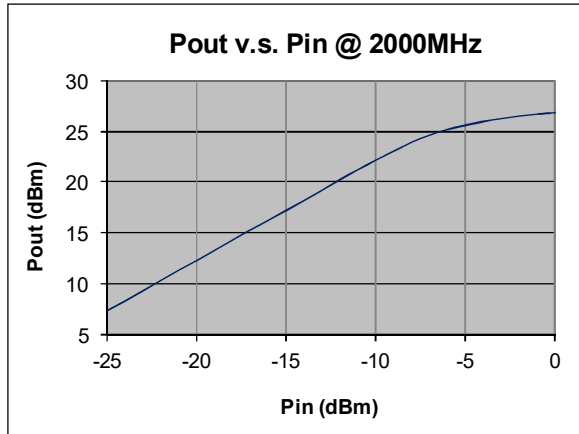
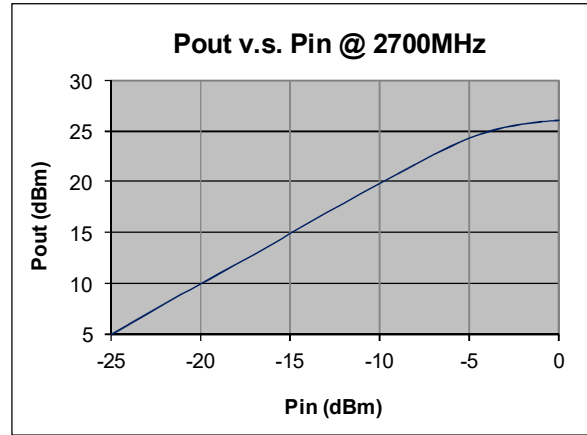
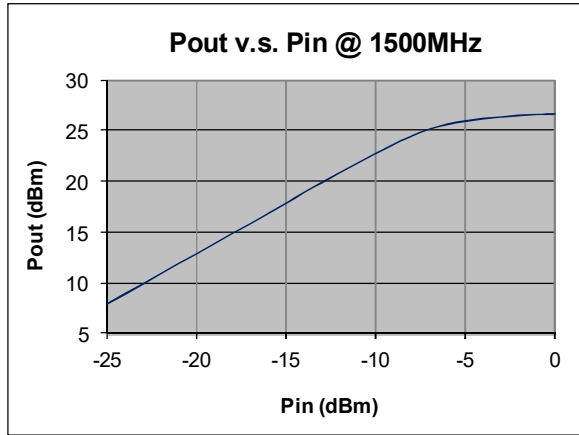
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Typical Performance @ +25 °C



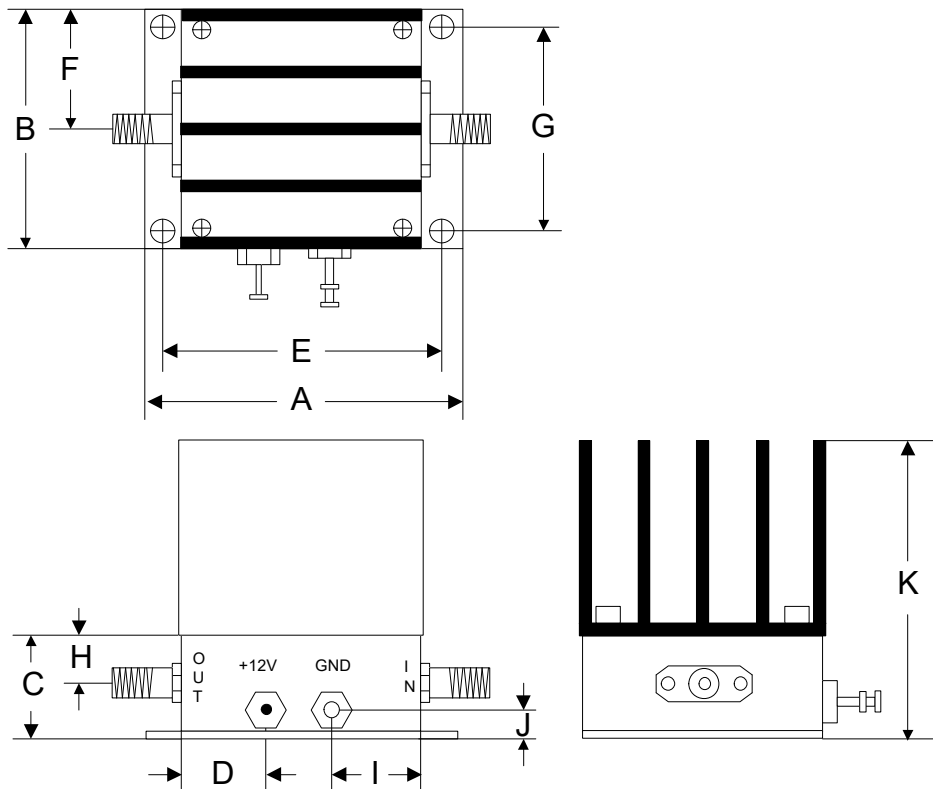
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+16dBm
Supply Voltage	+25V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °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	1.563
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76	39.70