

## MGA Series

## 100-5000MHz 30dB Gain Medium Power RF Amplifier

### Features

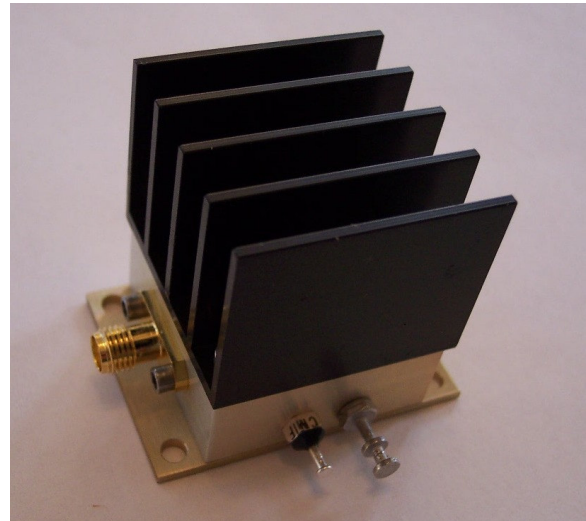
- Frequency Range: 100-5000MHz
- Gain: 30dB
- P<sub>1dB</sub>: +20dBm
- IP3: +34dBm
- Noise Figure: 5dB
- DC Power: 12V
- SMA Connector

Performance measured @ 2000MHz

### Description

MGA-5-30 is a 30dB gain wideband Medium Power RF Amplifier with flat frequency response from 100MHz to 5000MHz.

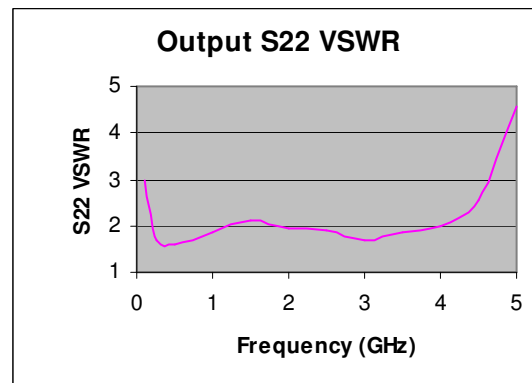
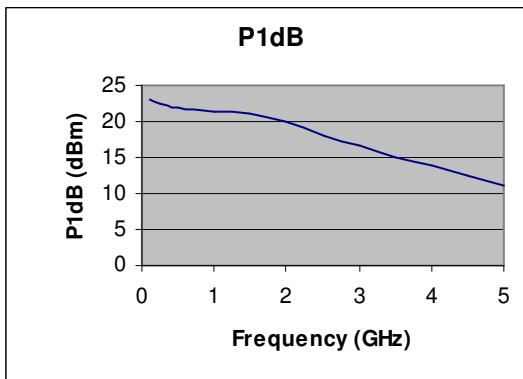
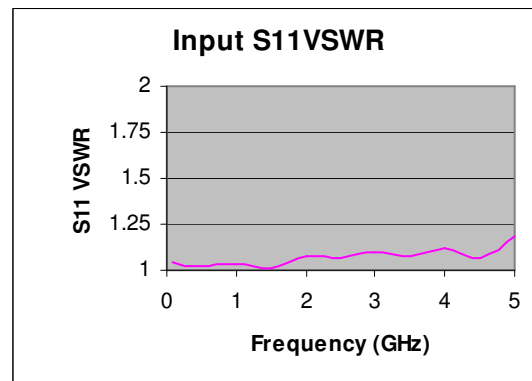
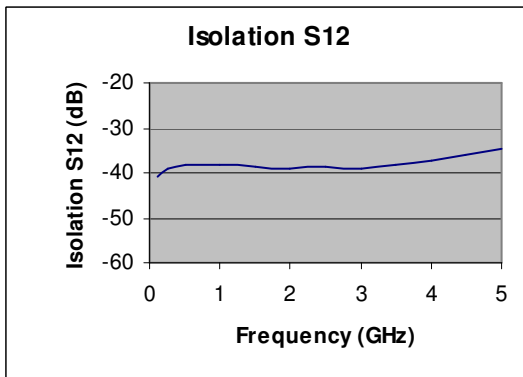
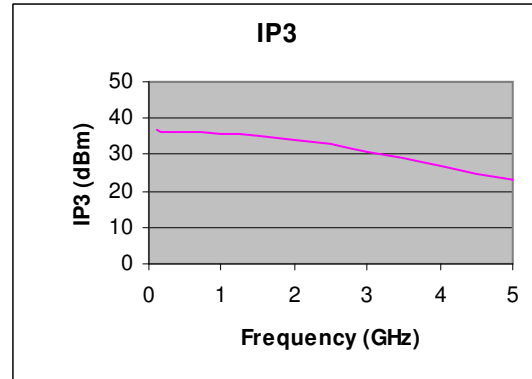
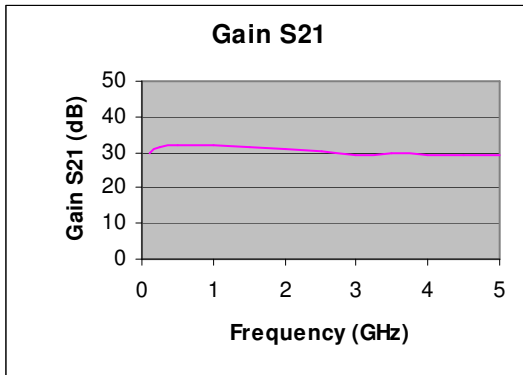
### Picture



### Electrical Specifications @ +25 °C, Z<sub>S</sub> = Z<sub>L</sub> = 50 Ω, V<sub>cc</sub> = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	100		5000
Gain f = 100MHz	dB		30	
f = 2000MHz	dB		30	
f = 5000MHz	dB		29	
P <sub>1dB</sub> f = 100MHz	dBm		+23	
f = 2000MHz	dBm		+20	
f = 5000MHz	dBm		+11	
IP3 f= 2000MHz	dBm		+34	
Noise Figure f = 2000MHz	dB		5	
VSWR f = 500-4000MHz				
Input VSWR			1:1.3	
Output VSWR			1:2.3	
DC Power Supply	V	10	12	15
Supply Current	mA		170	

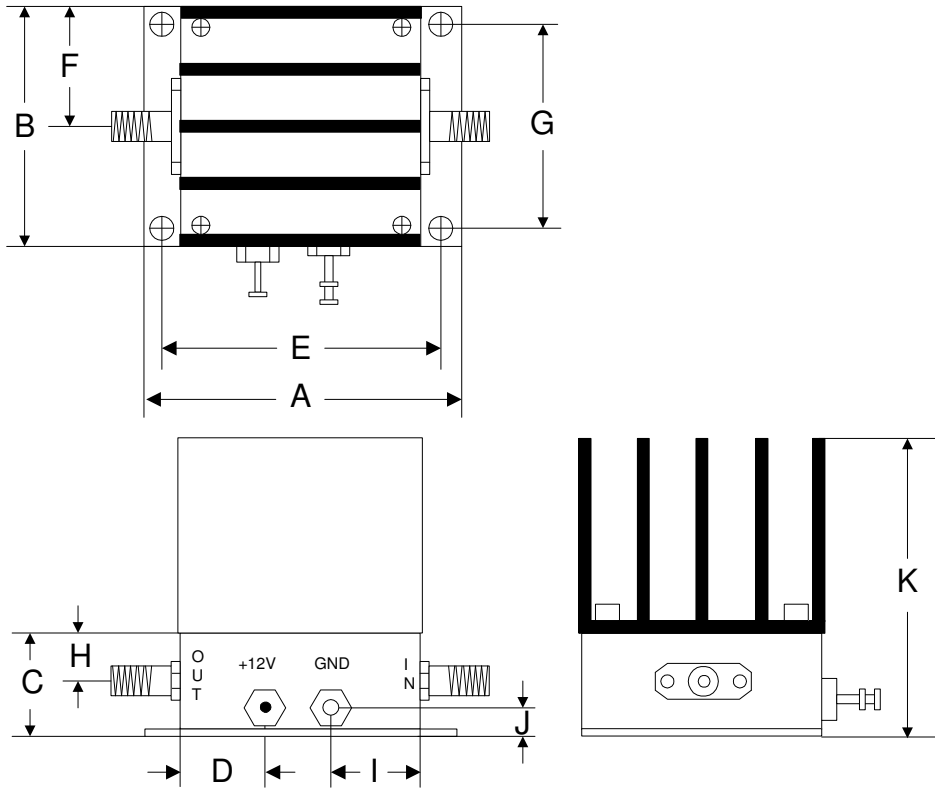
### Typical Performance @ +25 °C



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+16V
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	1.750	1.250	0.563	0.450	1.500	0.625	1.000	0.250	0.500	0.187	1.563
mm	44.45	31.75	14.29	11.43	38.10	15.88	25.40	6.35	12.70	4.76	39.70