

MGA Series

5.15GHz –5.35GHz 0.5W RF Amplifier

Features

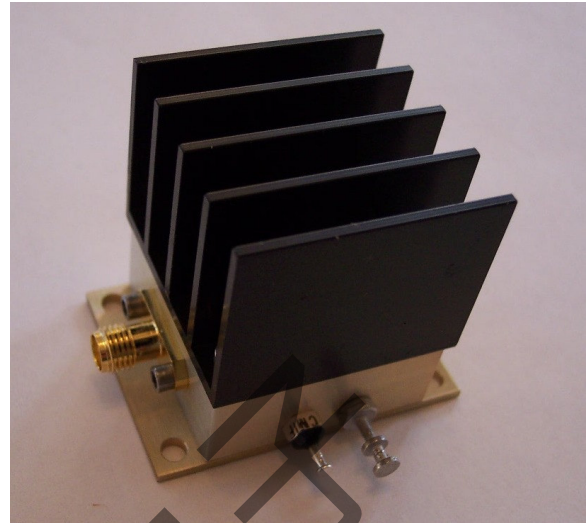
- Frequency Range: 5.15–5.35GHz
- Gain: 20dB
- P_{out}: +27.3dBm
- IP3: +40dBm
- Noise Figure: 6dB
- Input VSWR: 1.6:1
- DC Power: 5V
- SMA Connector

Performance Tested @ 5.25GHz

Description

MGA-5250 is +27dBm (0.5W) output RF Amplifier operates with frequency range from 5.15GHz to 5.35GHz.

Picture



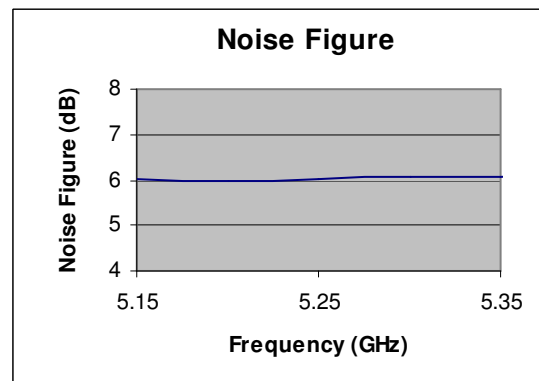
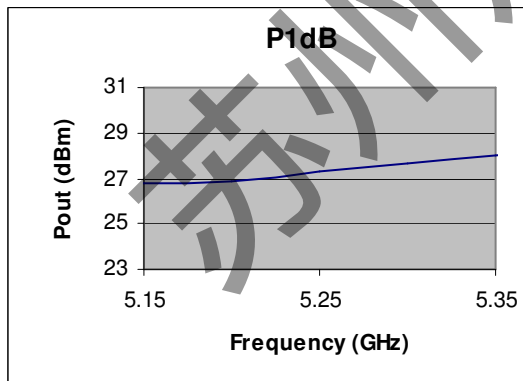
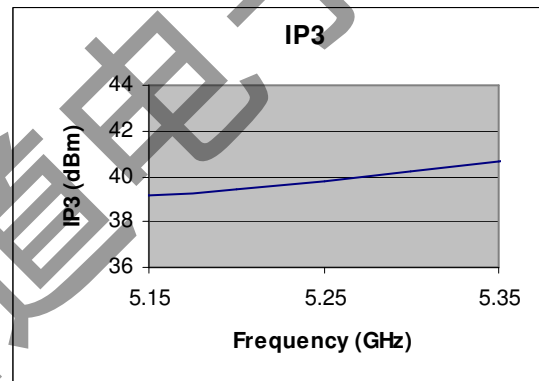
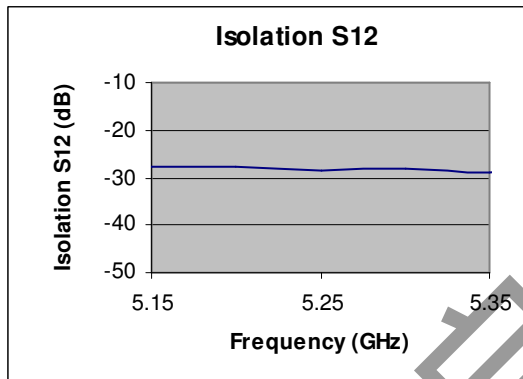
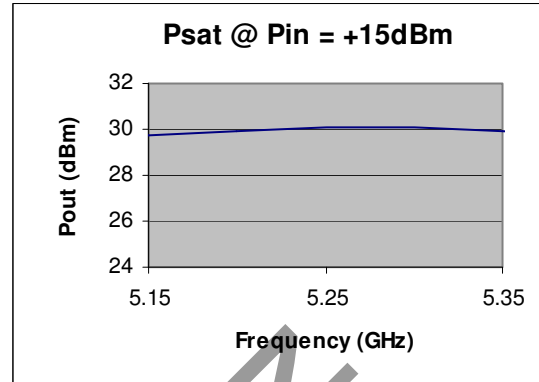
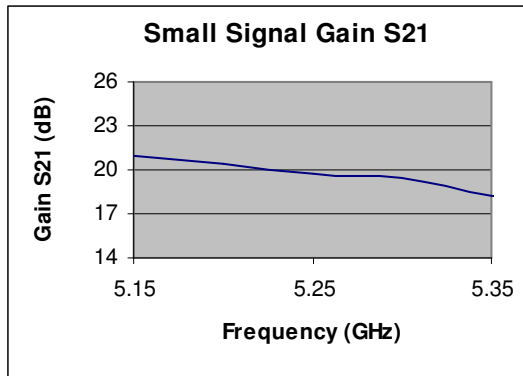
Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ω, V_{cc}=+5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	5.15		5.35
Small Signal Gain	f = 5.15GHz		21.0	
	f = 5.25GHz		19.8	
	f = 5.35GHz		18.3	
P _{1dB}	dB		+27.3	
P _{sat} @ P _{in} = +15dBm	dBm		+30	
OIP3	dBm		+40	
Noise Figure at 5.25GHz	dB		6.0	
Reverse Isolation	dB		-28	
VSWR Input			1.7:1	
DC Power Supply	V	4.5	5.0	5.5
Supply Current	Quiescent (no RF)	mA	570	
	@ P _{sat} = +30dBm	mA	900	

MGA Series

5.15GHz –5.35GHz 0.5W RF Amplifier

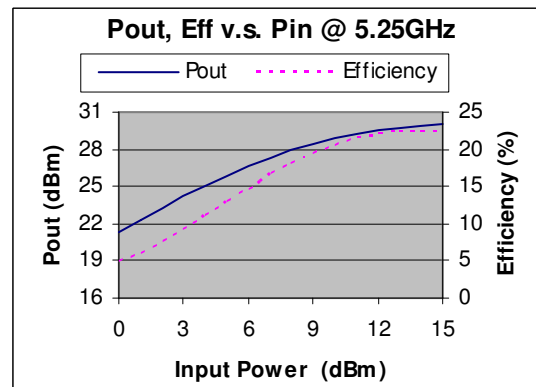
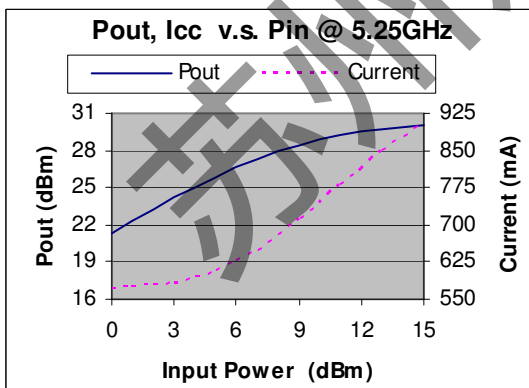
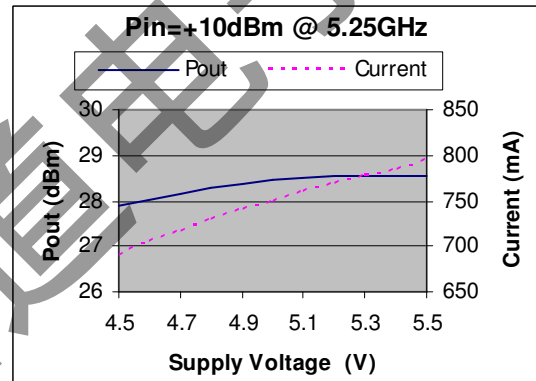
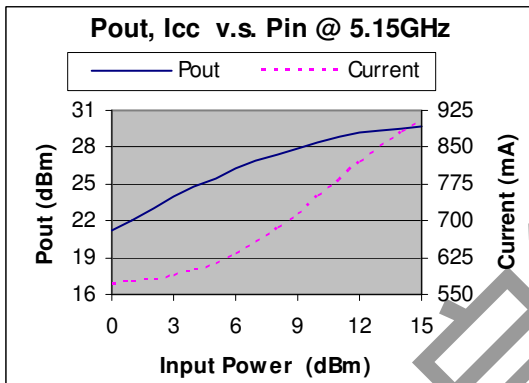
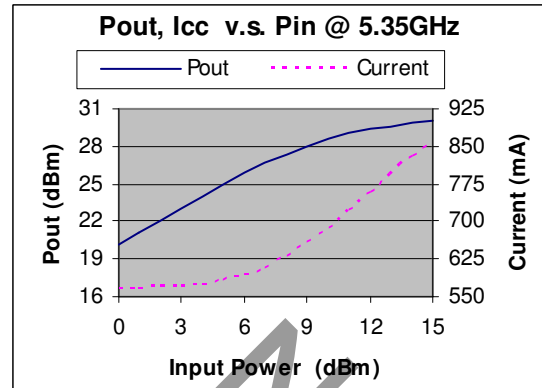
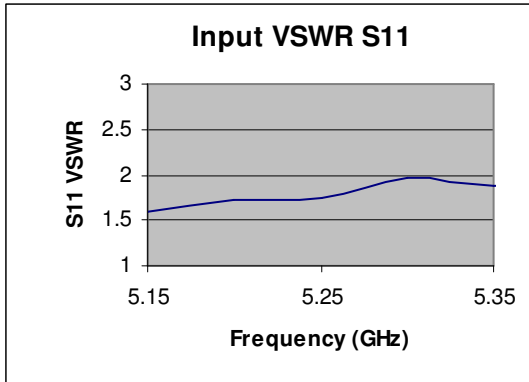
Typical Performance @ +25 °C



MGA Series

5.15GHz –5.35GHz 0.5W RF Amplifier

Typical Performance @ +25 °C



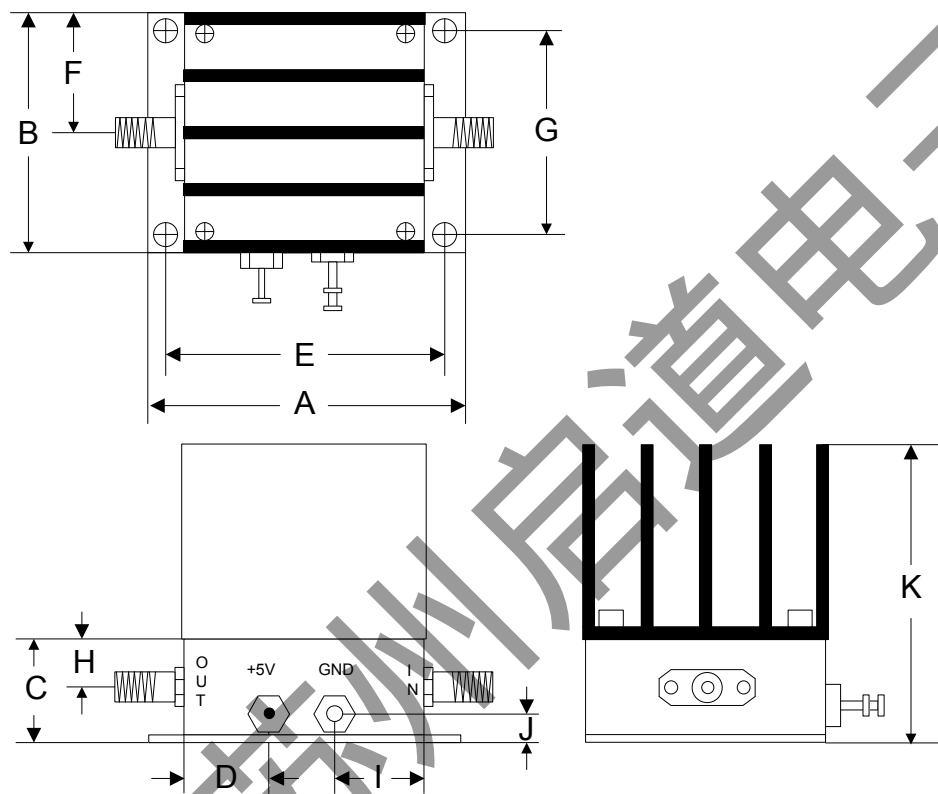
MGA Series

5.15GHz –5.35GHz 0.5W RF Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Supply Voltage	+6V
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