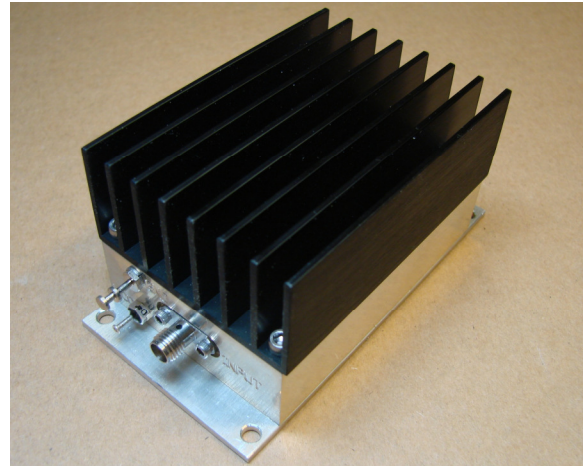


MPA Series**6-9GHz 1W RF Power Amplifier****Features**

- Frequency Range: 6-9GHz
- Gain: 30dB min.
- P_{out}: +30dBm
- IP3: +40dBm
- Noise Figure: 6dB
- DC Power: 12V
- SMA Connector

Picture

Performance measured @ 7.5GHz

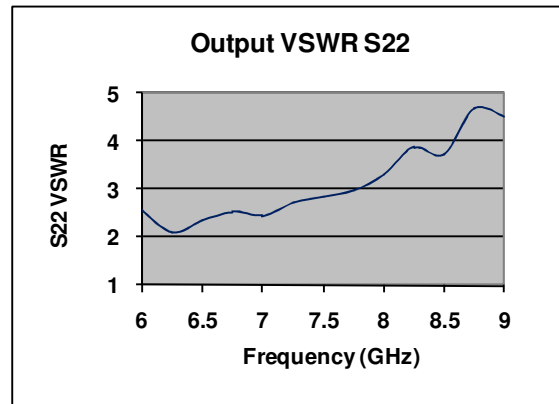
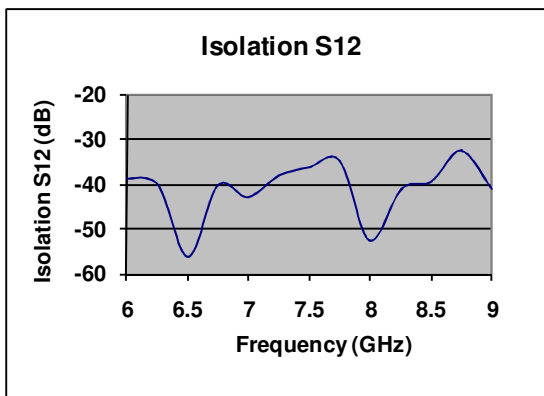
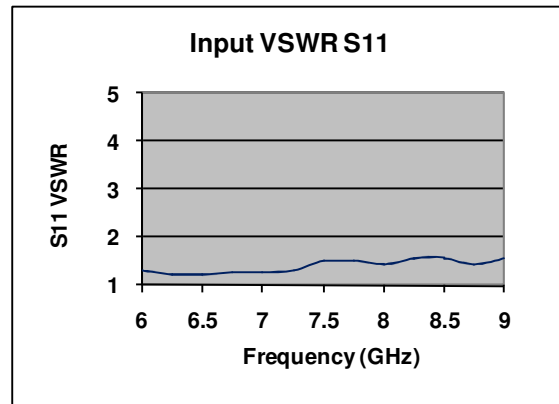
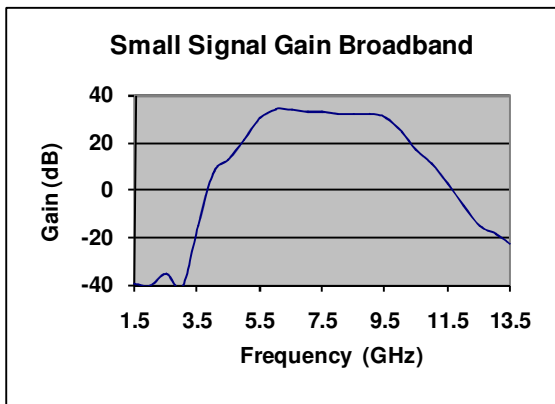
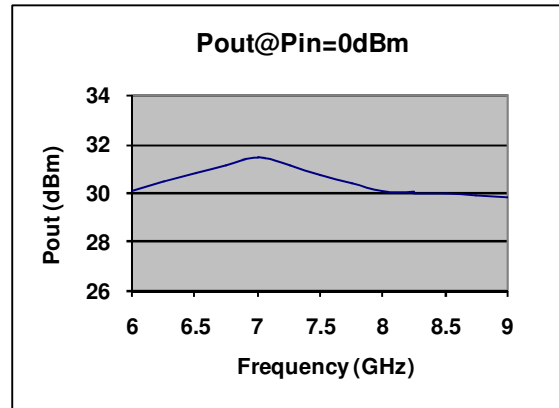
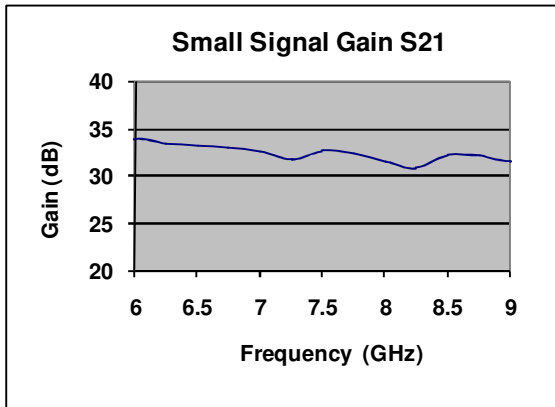
Description

MPA-75-30 is a 1Watt (+30dBm) output RF Power Amplifier operating from single 12V DC power supply with frequency from 6GHz to 9GHz.

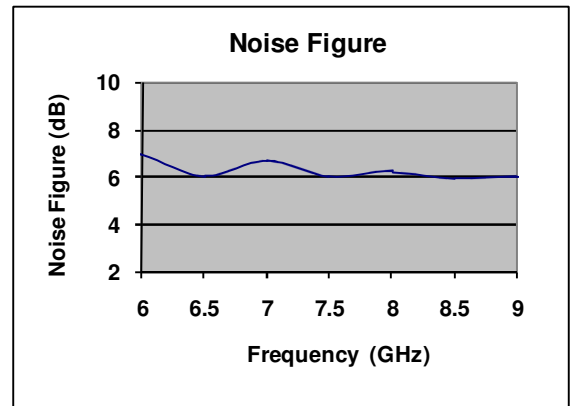
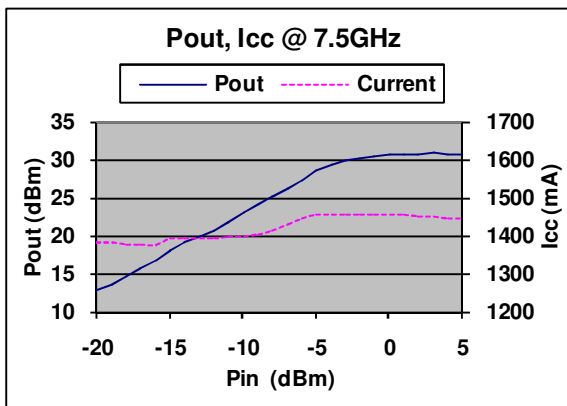
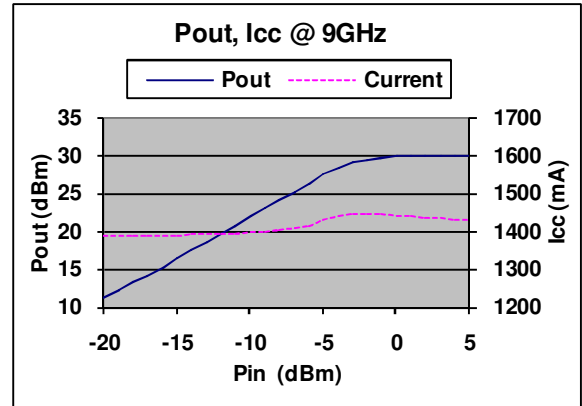
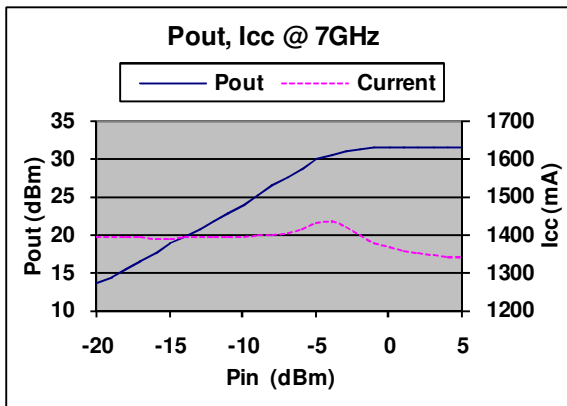
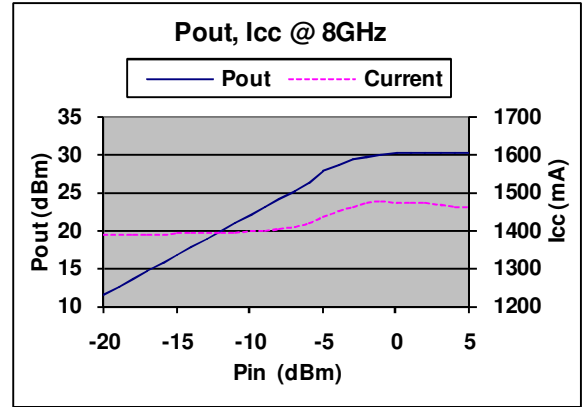
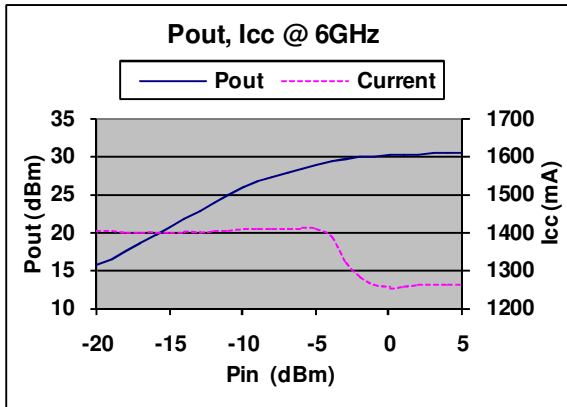
Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ω, V_{cc} = 12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	6		9
Small Signal Gain	dB	30	32	
Gain Flatness	dB		±1.5	
Output Power P _{out} @ P _{in} = 0dBm	dBm		+30	
IP3	dBm		+40	
Reverse Isolation	dB		-35	
Noise Figure	dB		6.0	
VSWR	Input		1.5:1	
	Output		3.0:1	
DC Power Supply	V	11	12	13
Supply Current	mA		1400	
Size (Excluding SMA Connector)	inch	3.750" x 2.000" x 1.913"		
Weight	Oz.	9		

Typical Performance @ +25 °C



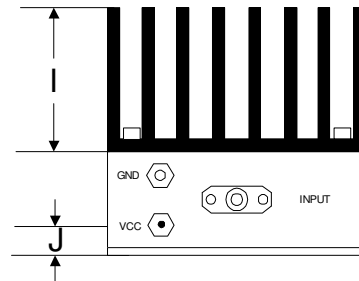
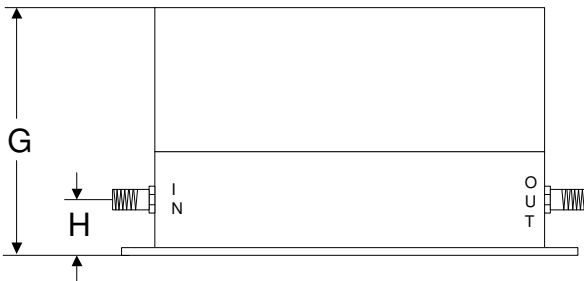
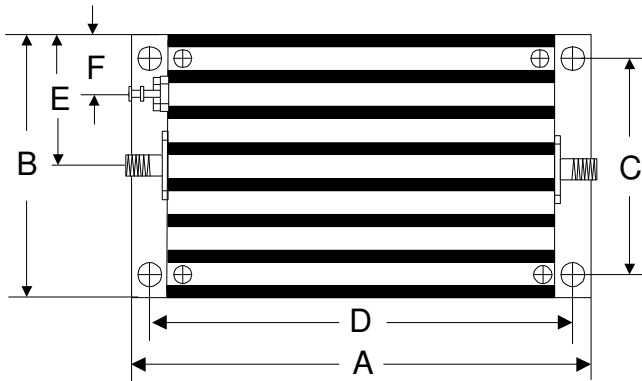
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Supply Voltage	+16V
Operating Temperature	-30 °C to +65 °C
Storage Temperature	-55 °C to +100 °C

Outline



	A	B	C	D	E	F	G	H	I	J
Inch	3.750	2.000	1.750	3.400	1.000	0.400	1.913	0.375	1.000	0.238
mm	92.25	50.80	44.45	86.36	25.40	10.16	48.59	9.53	25.40	6.03