

MPA Series

4.8 - 6.0GHz 1W RF Power Amplifier

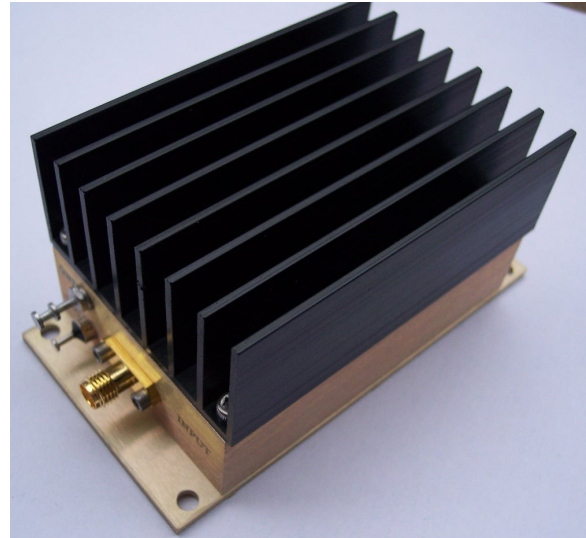
Features

- Frequency Range: 4.8 - 6.0GHz
- Gain: 30dB
- P_{1dB}: +30dBm
- IP3: +39dBm
- Noise Figure: 6dB
- DC Power: 12V
- SMA Connector

Description

MPA-54-30 is a 30dB gain +30dBm output Medium Power RF Amplifier with single 11-15V DC power supply for 4.8 to 6.0GHz applications.

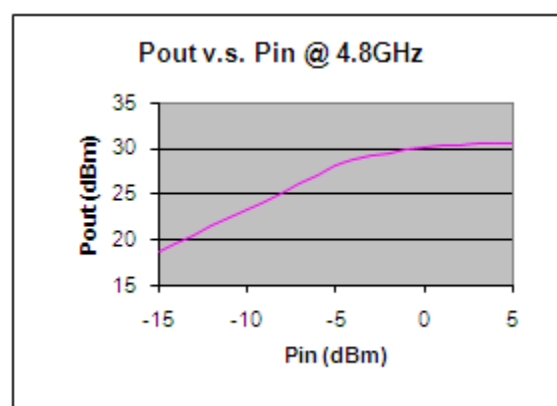
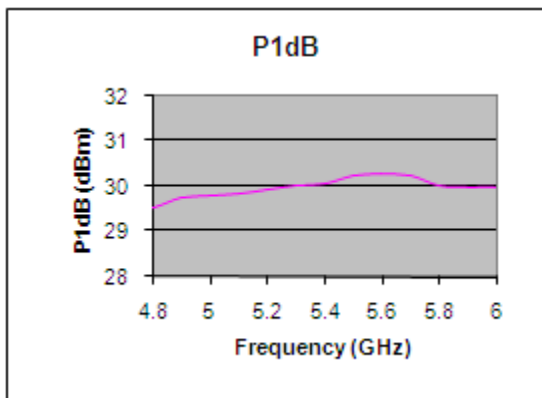
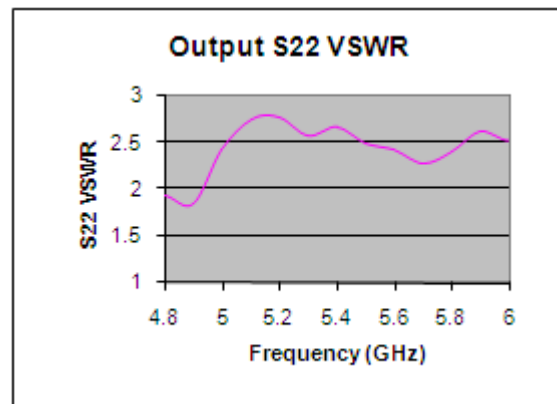
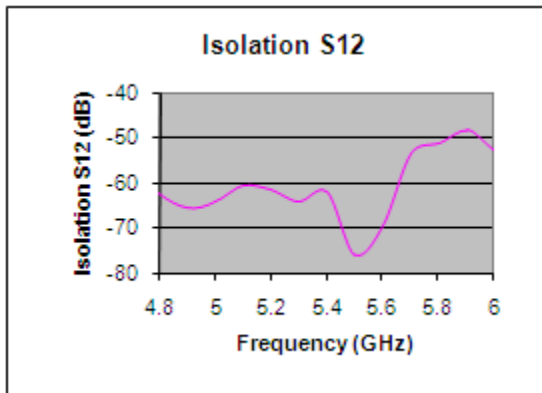
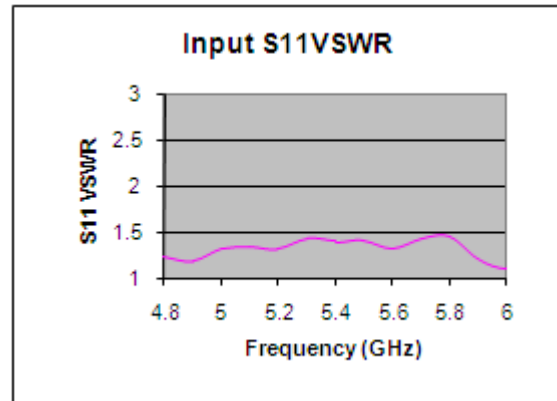
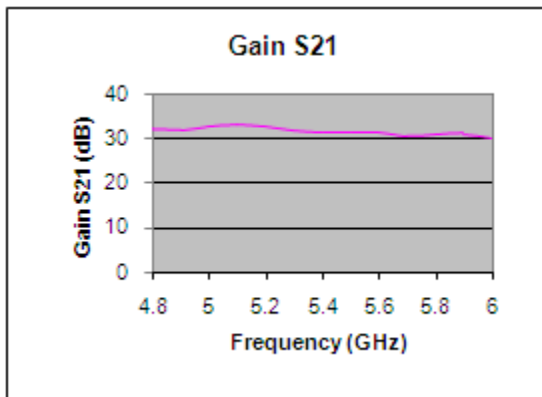
Picture



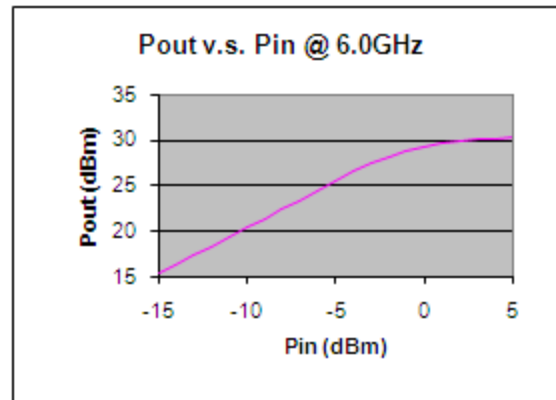
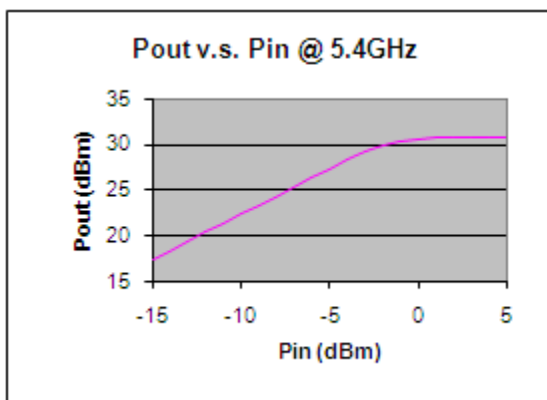
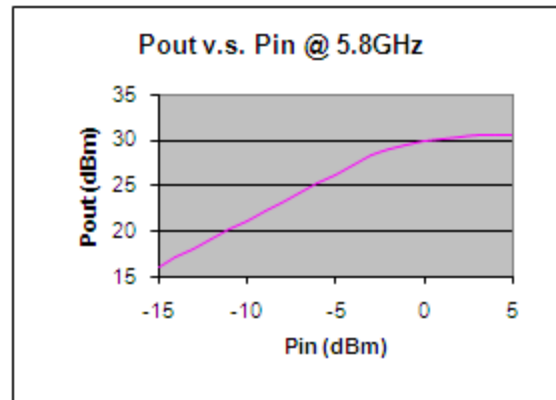
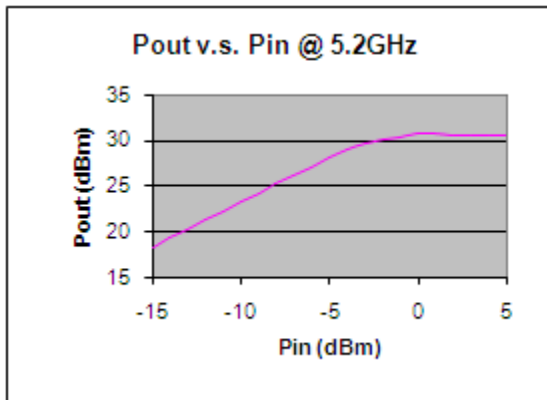
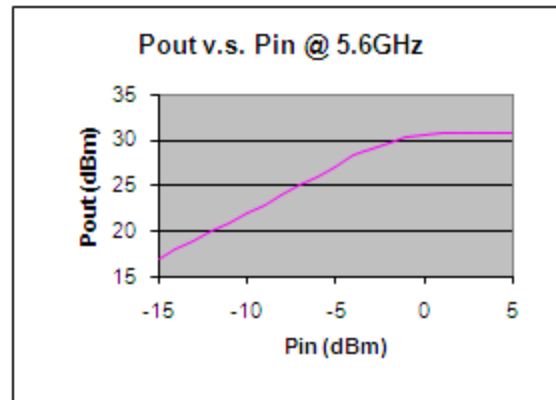
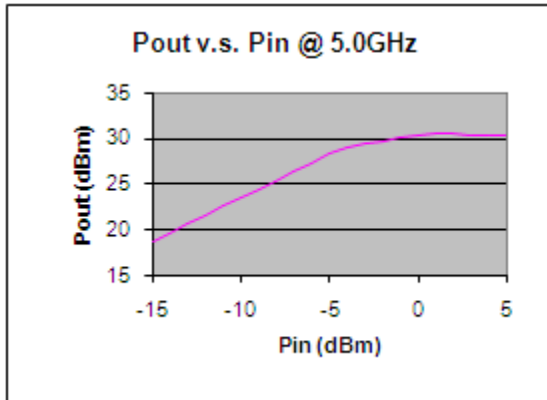
Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ohms, V_{CC} = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	4.8		6.0
Gain	dB	29	30	
P _{1dB}	dBm		+30	
IP3	dBm		+39	
Reverse Isolation S ₁₂	dB		-50	
Noise Figure f = 5.4GHz	dB		6	
VSWR Input VSWR			1:1.4	
Output VSWR			1:2.7	
DC Power Supply	V	11	12	15
Supply Current	mA		550	

Typical Performance @ +25 °C



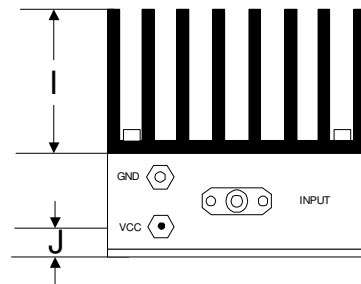
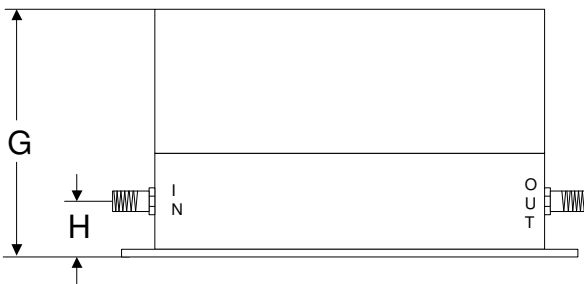
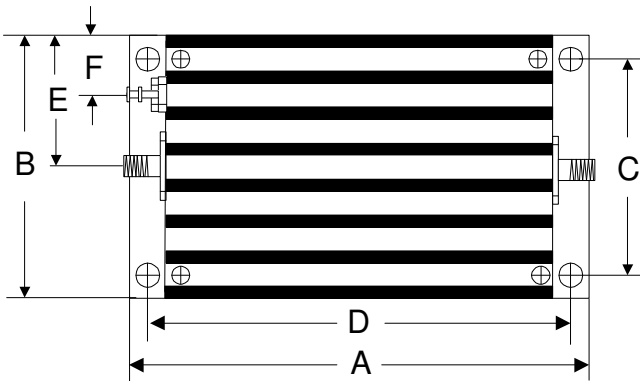
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
Supply Voltage	+18V
Operating Temperature	-40 °C to +70 °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	1.813	0.375	1.000	0.238
mm	92.25	50.80	44.45	86.36	25.40	10.16	46.05	9.53	25.40	6.03