

MPA Series

3200-4000MHz 2W RF Power Amplifier

Features

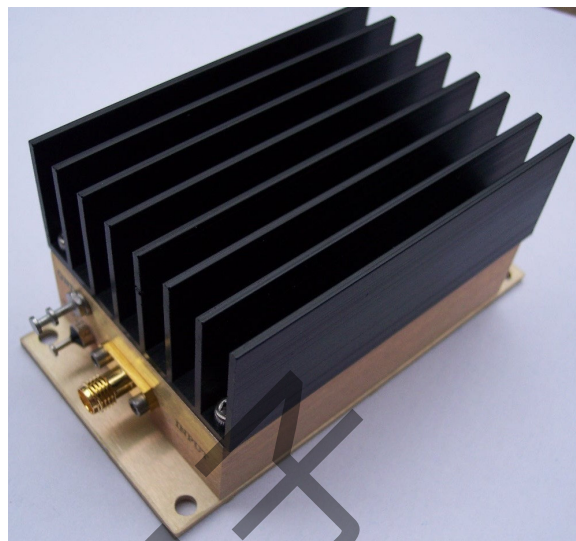
- Frequency Range: 3200-4000MHz
- Gain: 23dB
- P_{out}: +33dBm
- IP3: +42dBm
- Noise Figure: 7.5dB
- Efficiency: 30%
- DC Power: 5V
- SMA Connector

Performance tested at 3600MHz

Description

MPA-36-23 is a 2Watt (+33dBm) output RF Power Amplifier operating from single 5V DC power supply with frequency from 3200MHz to 4000MHz.

Picture



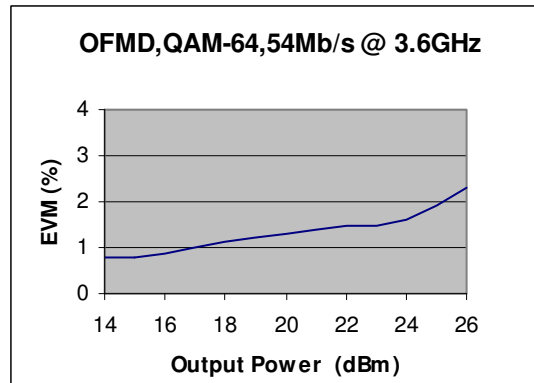
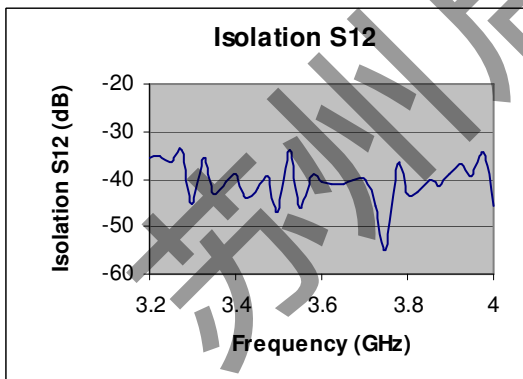
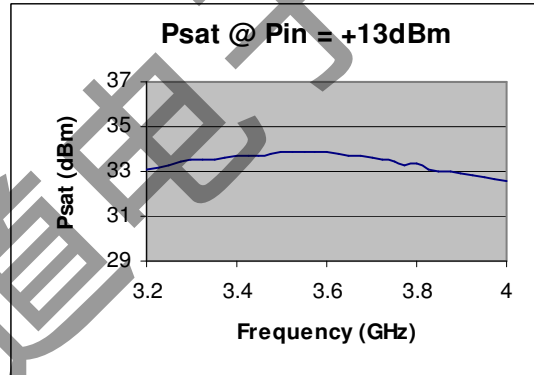
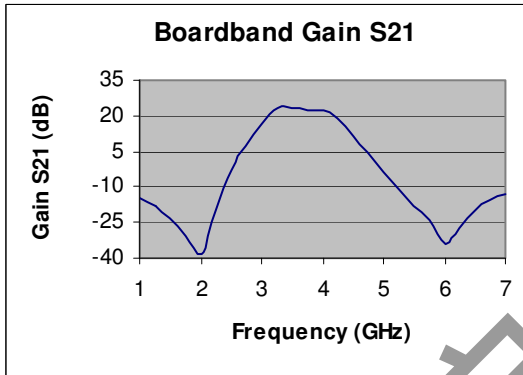
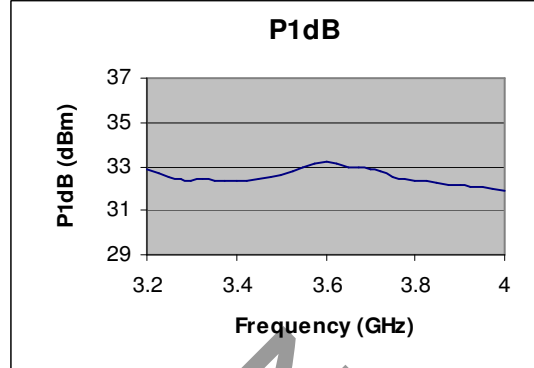
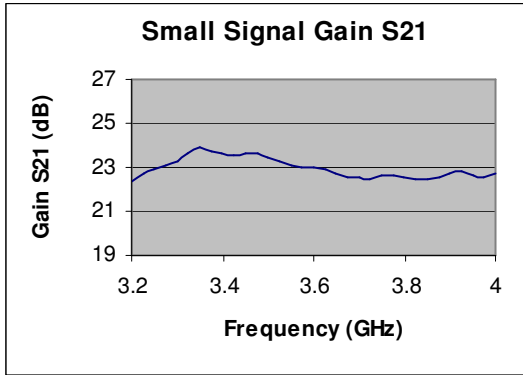
Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ω, V_{cc} = +5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	3200		4000
Small Signal Gain	dB		23	
Output Power P _{1dB} @ P _{in} = +10dBm	dBm		+33	
Channel Output Power P _{out} (OFDM QAM-64, 54Mb/s, EVM<2.5%)	dBm		+25	
IP3	dBm		+42	
Reverse Isolation	dB		-40	
Noise Figure	dB		7.5	
Efficiency at P _{out} = +33dBm	%		30	
VSWR Input/Output			1.8:1/1.3:1	
DC Power Supply	V		5.0	6.0
Quiescent Current with No Input	mA		650	
Supply Current at P _{out} = +33dBm	mA		1300	
Size (Excluding SMA Connector)	inch	3.750" x 2.000" x 1.813"		
Weight	Oz.	8		

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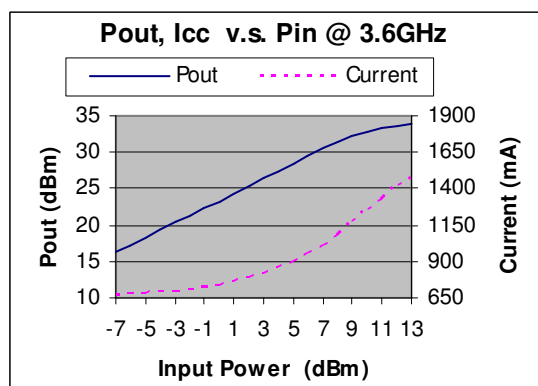
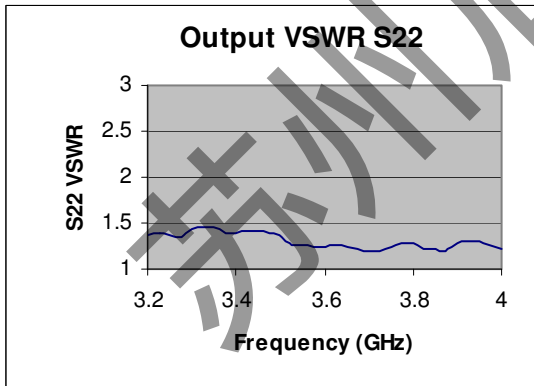
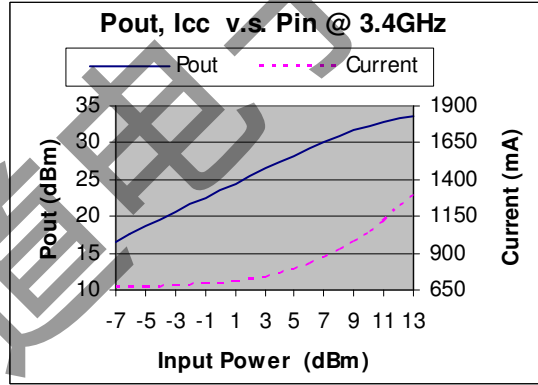
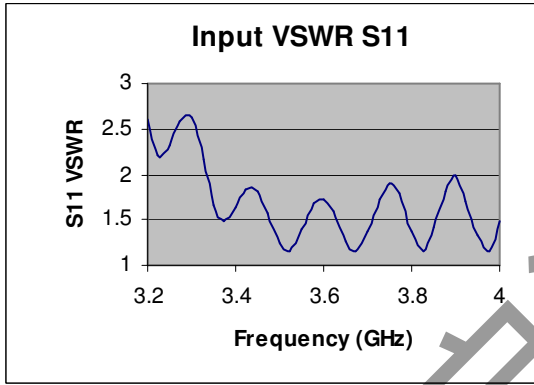
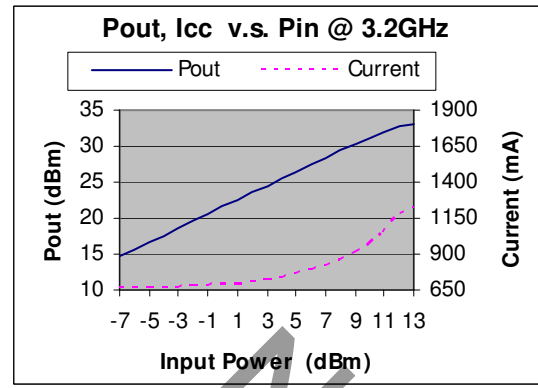
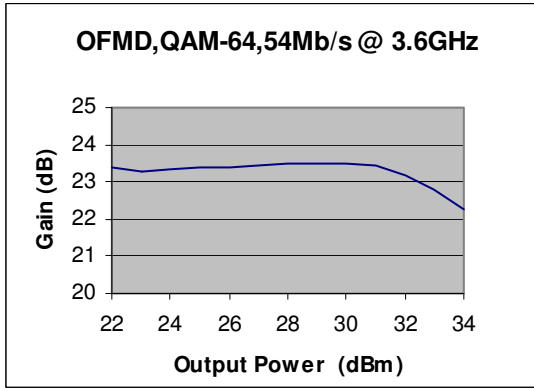
Typical Performance @ +25 °C



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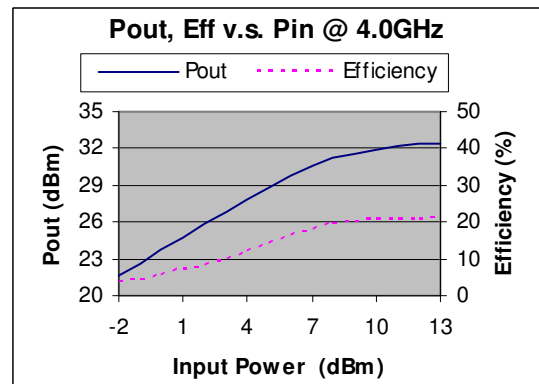
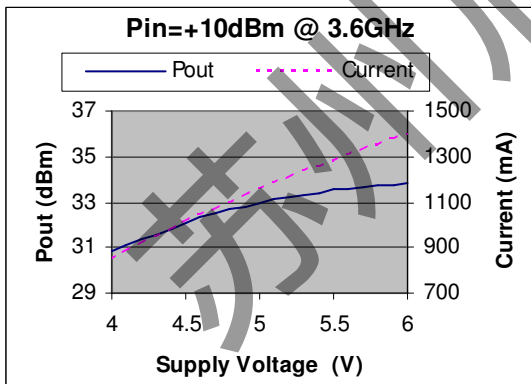
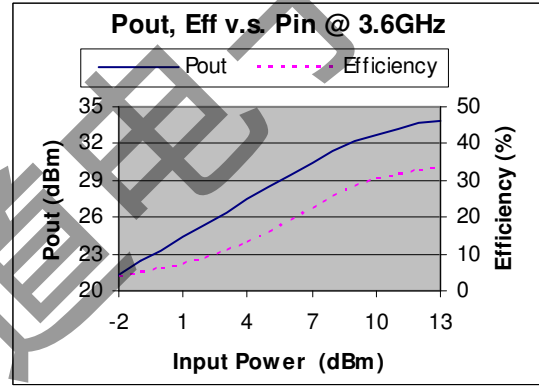
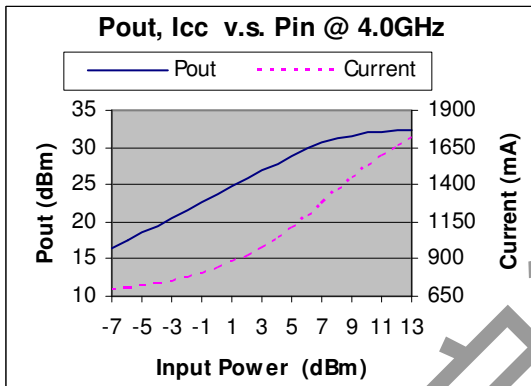
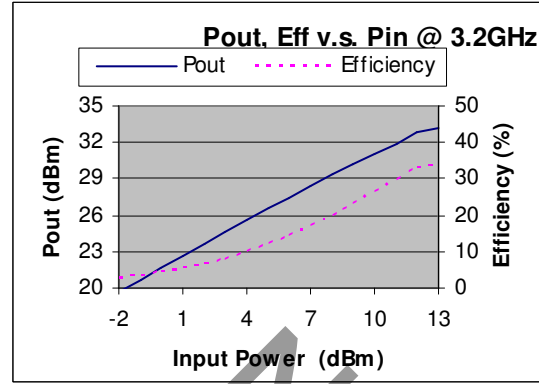
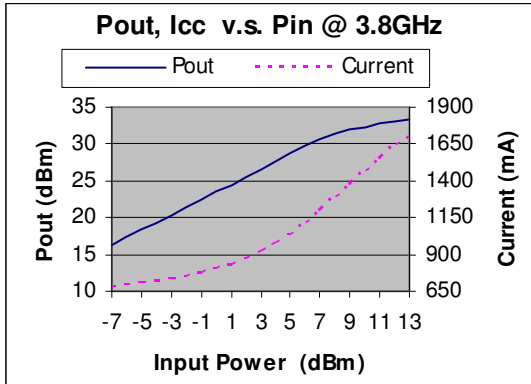
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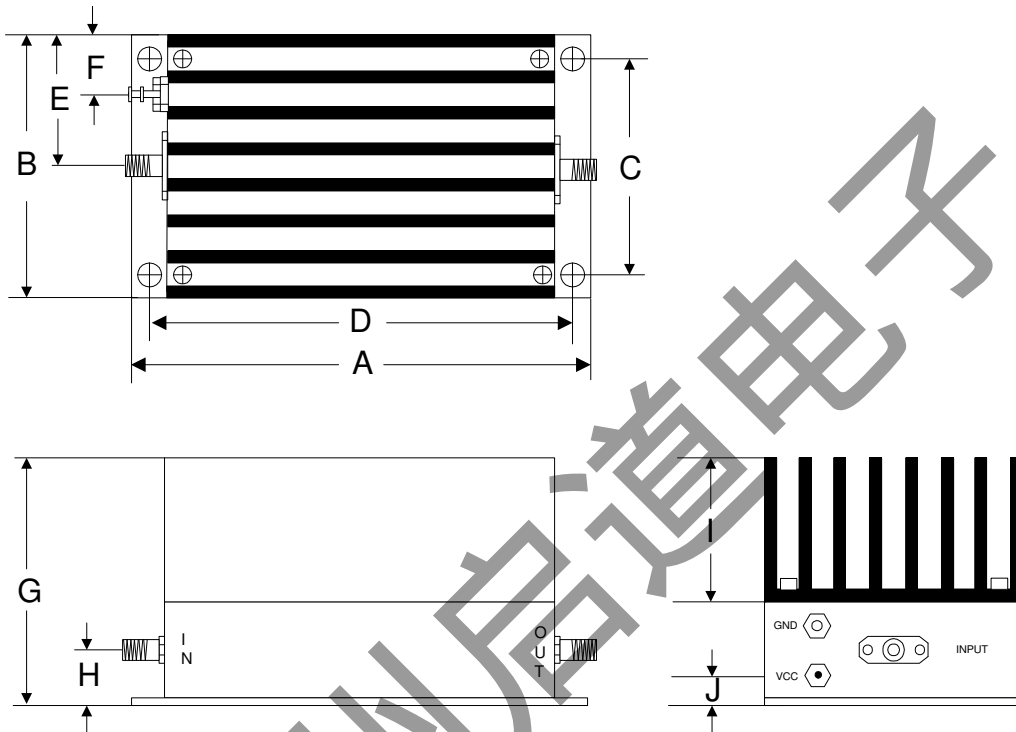
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
Supply Voltage	+7V
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	1.813	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