



HPA Series

850-950MHz 10W RF Power Amplifier

Features

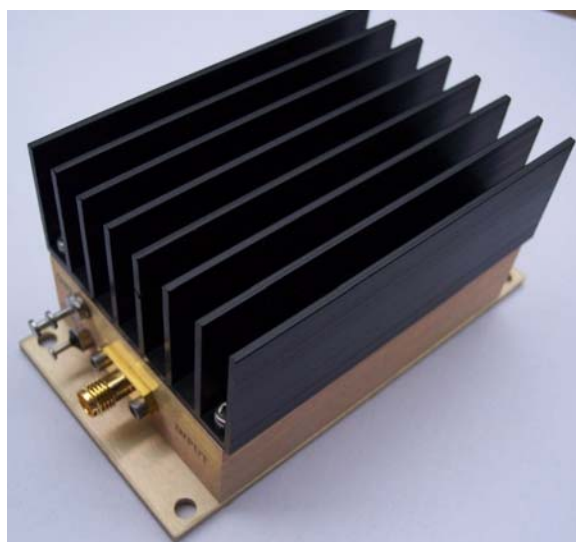
- Frequency Range: 850-950MHz
- Gain: 40dB
- P_{out}: +40dBm
- P_{sat}: +42dBm
- IP3: +50dBm
- DC Power: 12V
- SMA Connector

Performance measured @ 900MHz

Description

MPA-0950 is a 10Watt (+40dBm) output RF Power Amplifier operating from single 12V DC power supply with frequency from 850MHz to 950MHz.

Picture

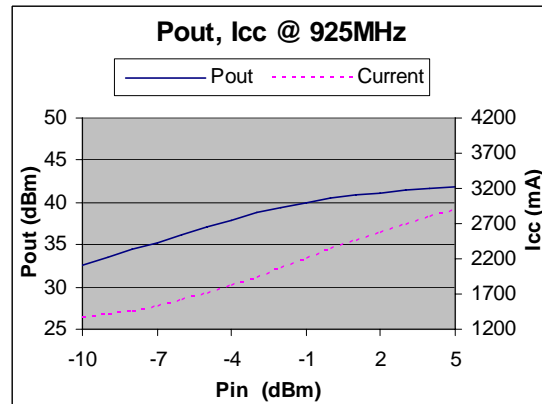
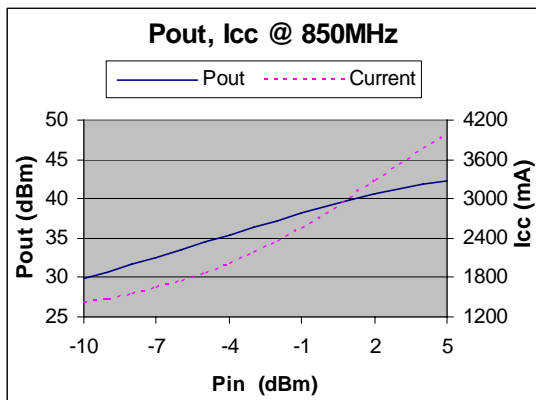
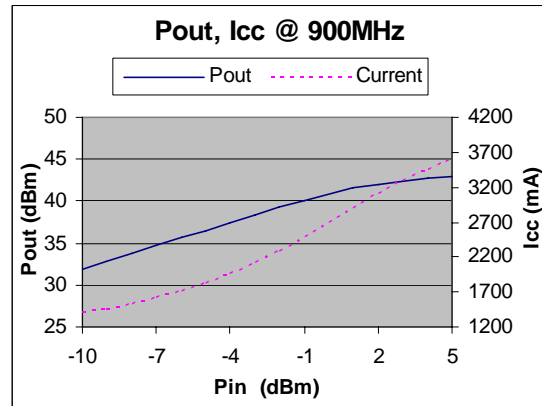
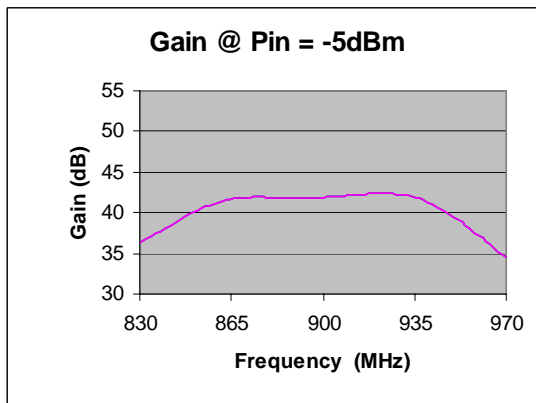
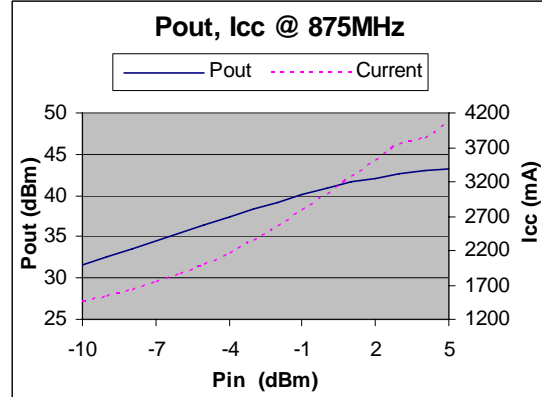
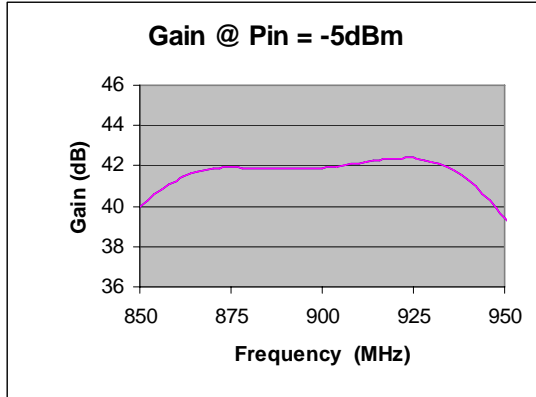


Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ω, V_{cc} = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	850		950
Small Signal Gain	dB	40	41	
Output Power P _{out} @ P _{in} = 0dBm	dBm		+40	
Saturated Power P _{sat} @ P _{in} = +5dBm	dBm		+42	
IP3	dBm		+50	
Reverse Isolation	dB		-75	
Noise Figure	dB		6.0	
Efficiency at Pout = +40dBm	%		35	
VSWR				
Input			1.4:1	
Output			1.4:1	
DC Power Supply	V		+12	
Supply Current	mA		2500	
Size (Excluding SMA Connector)	inch	6.000" x 4.000" x 2.000"		
Weight	Oz.	8		

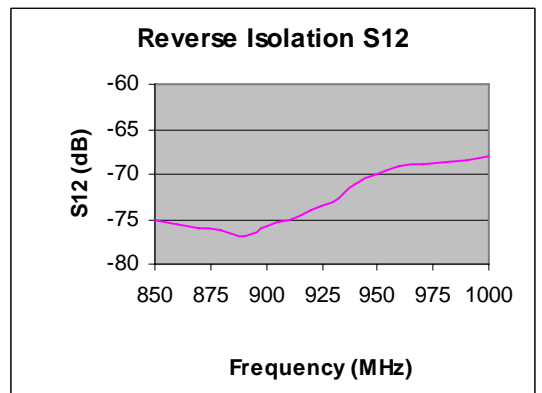
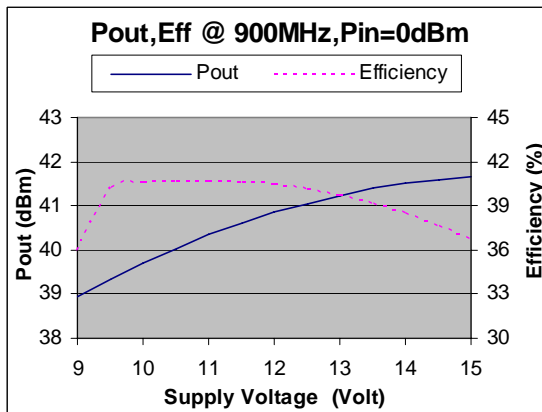
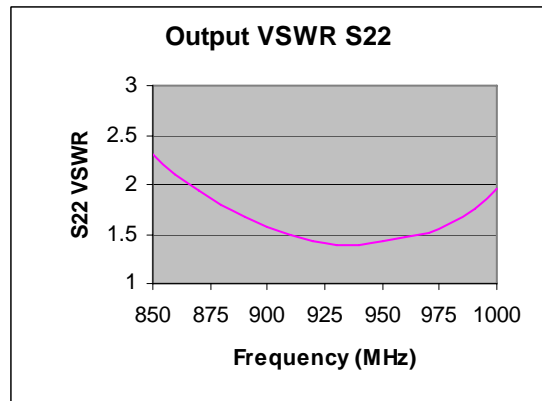
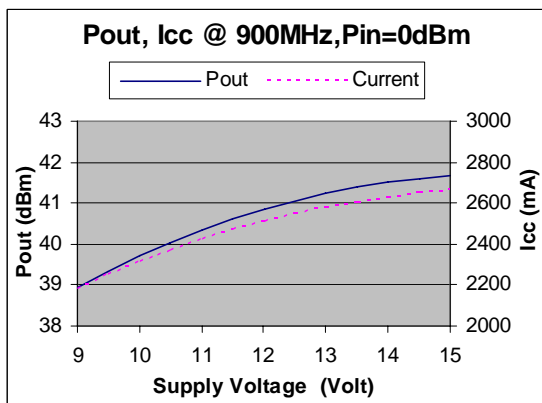
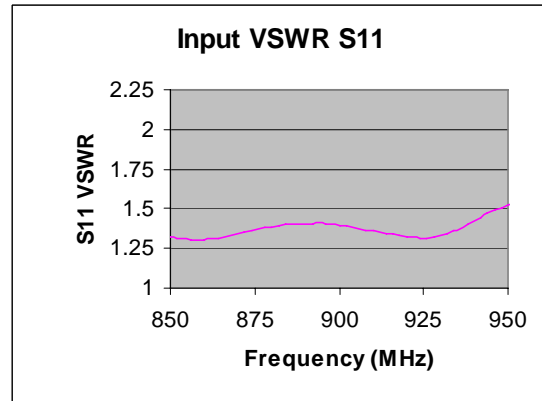
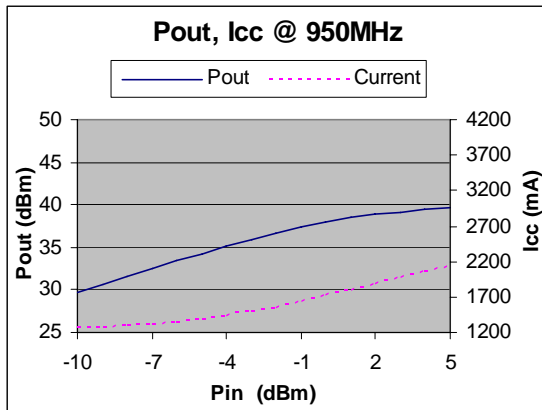


Typical Performance @ +25 °C





Typical Performance @ +25 °C





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HPA-0950

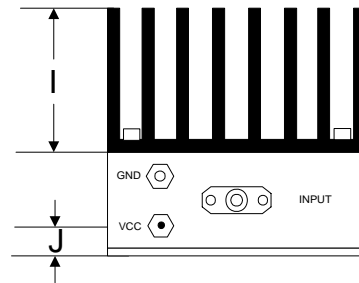
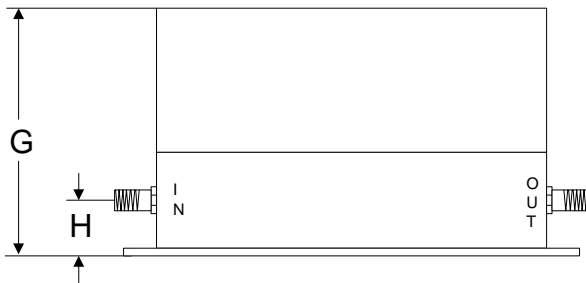
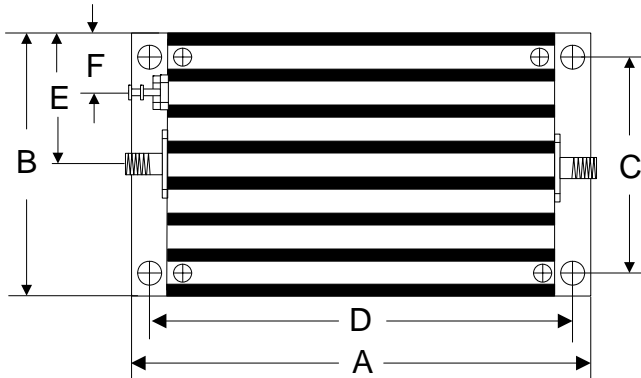
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850-950MHz 10W RF Power Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
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	1.813	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