

HPA Series

750 - 950MHz 10W RF Power Amplifier

Features

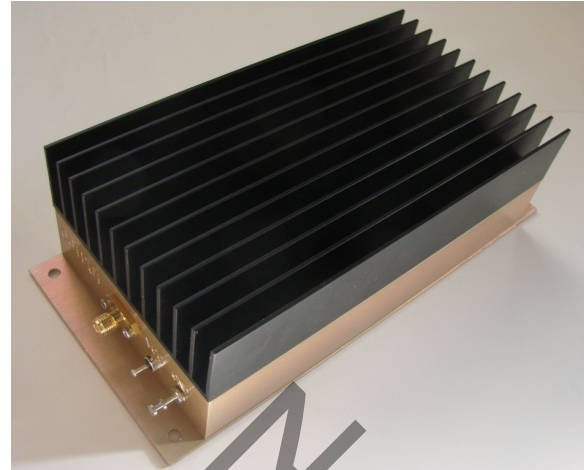
- Frequency Range: 750 - 950MHz
- Gain: 40dB
- P_{out} : +40dBm
- P_{sat} : +42dBm
- IP3: +48dBm
- DC Power: 12V
- SMA Connector

Performance measured @ 850MHz

Description

HPA-850 is a 10Watt (+40dBm) output RF Power Amplifier operating from single 12V DC power supply with frequency range in 750 - 950MHz.

Picture



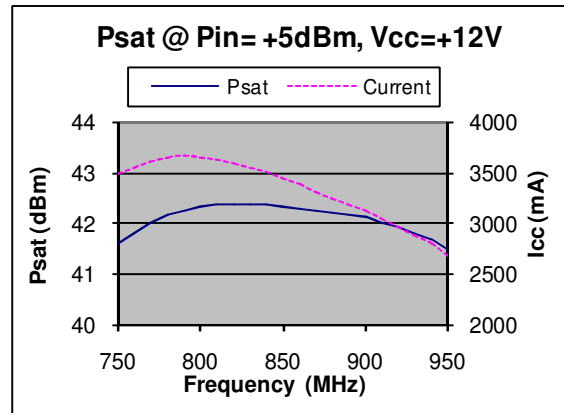
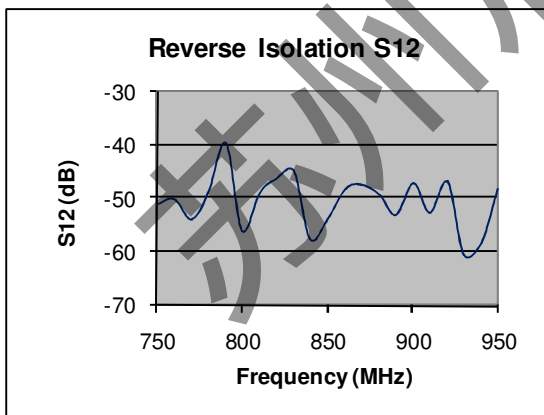
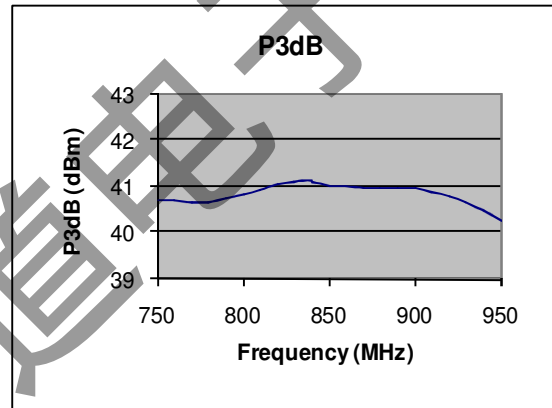
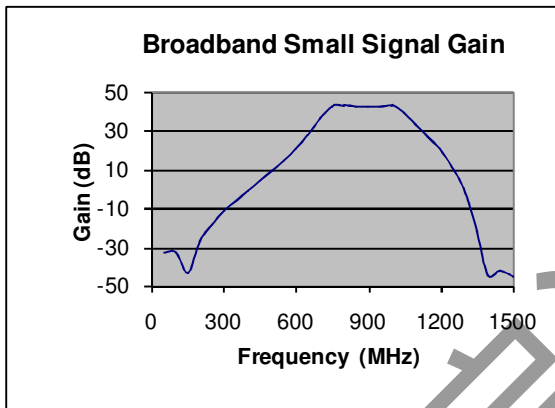
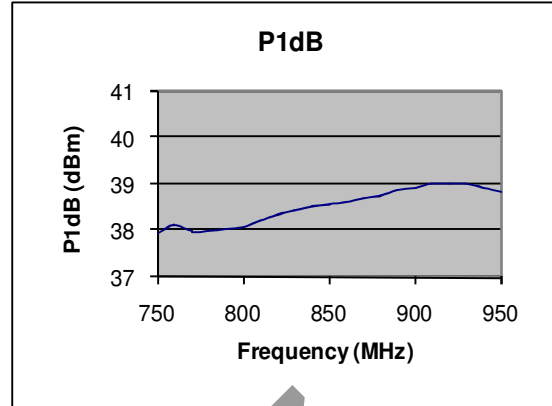
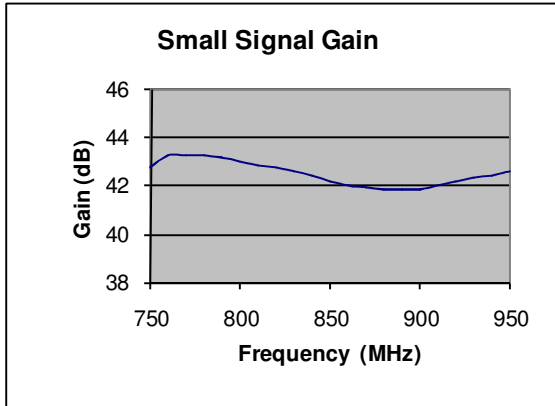
Electrical Specifications @ +25 °C, $Z_S = Z_L = 50 \Omega$, $V_{CC} = +12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	750		950
Small Signal Gain	dB	40	42	
Output Power P_{out} @ $P_{in} = 0dBm$	dBm		+40	
Saturated Power P_{sat} @ $P_{in} = +5dBm$	dBm		+42	
IP3	dBm		+48	
Reverse Isolation	dB		-53	
Noise Figure	dB		11	
Efficiency at $P_{out} = +40dBm$	%		31	
VSWR Input			1.4:1	
DC Power Supply	V		+12	
Supply Current Quiescent (no RF)	mA		2000	
@ $P_{out} = +40dBm$	mA		2750	
Size (Excluding SMA Connector)	inch	7.000" x 3.250" x 2.000"		
Weight	Oz.	24 (680g)		

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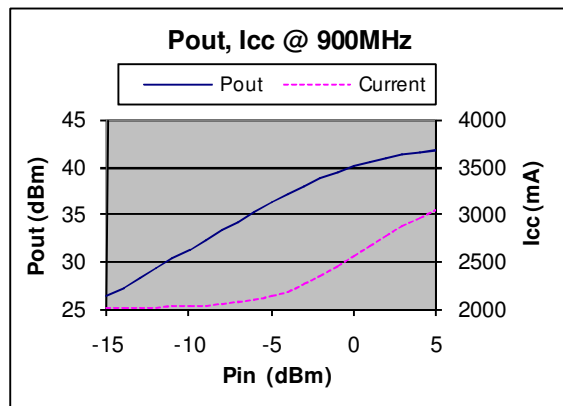
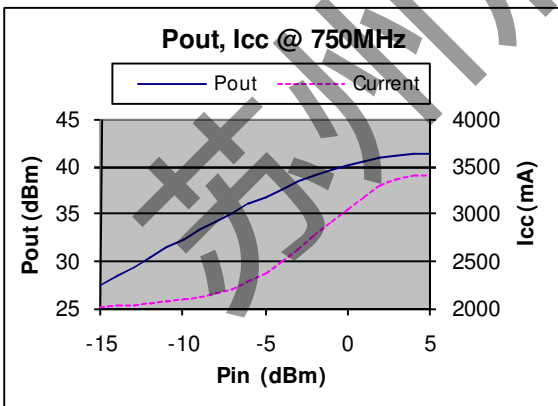
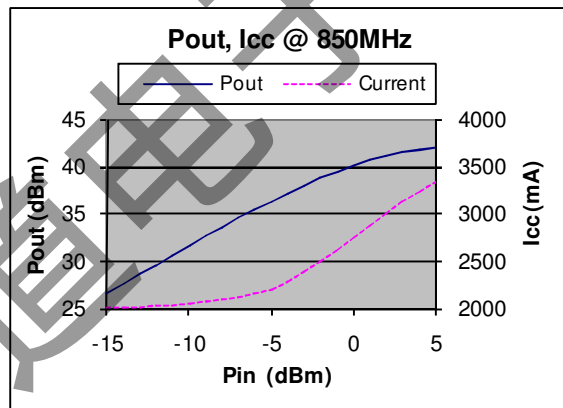
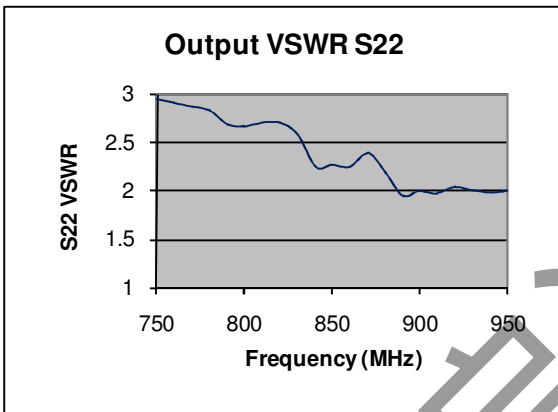
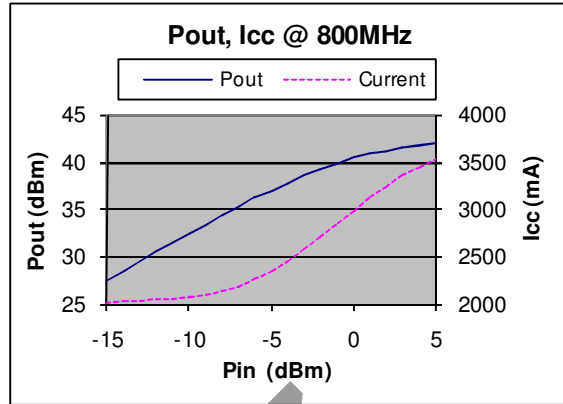
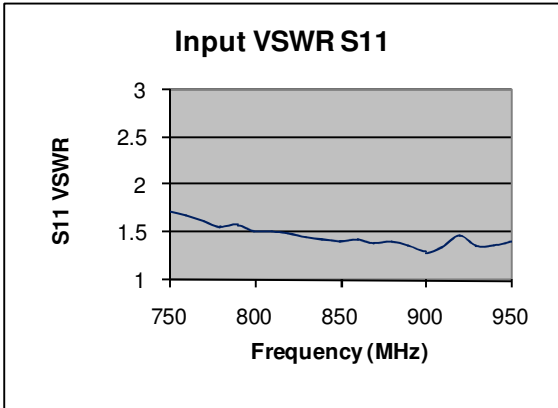
Typical Performance @ +25 °C



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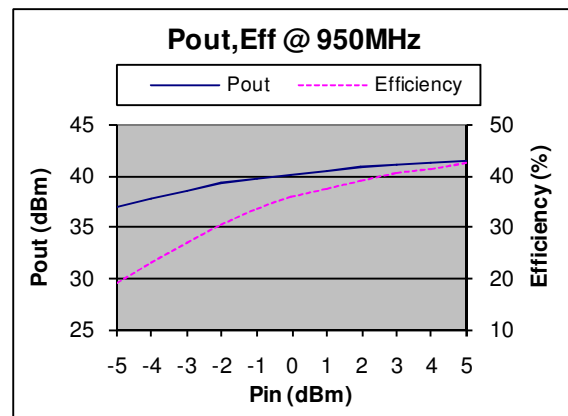
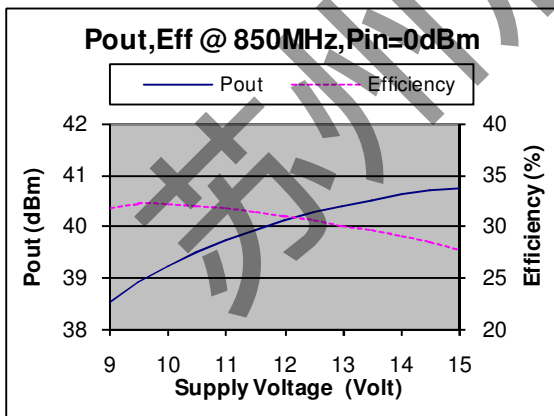
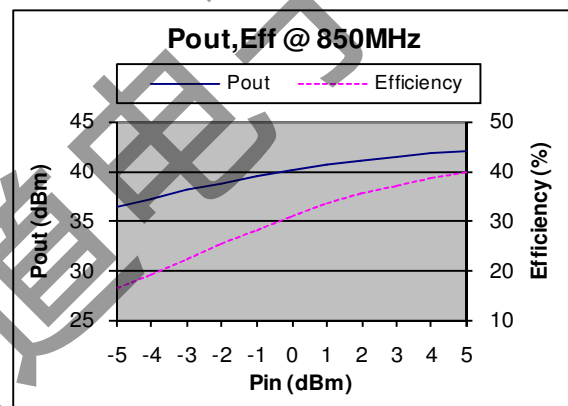
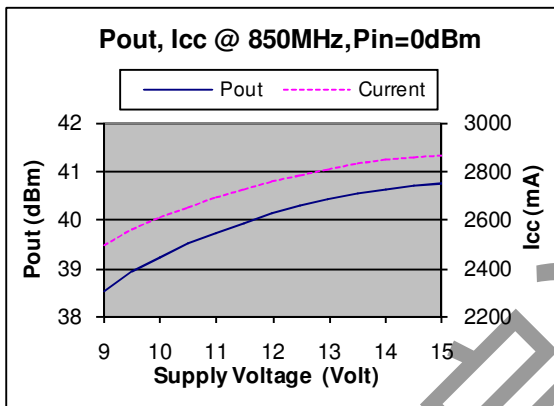
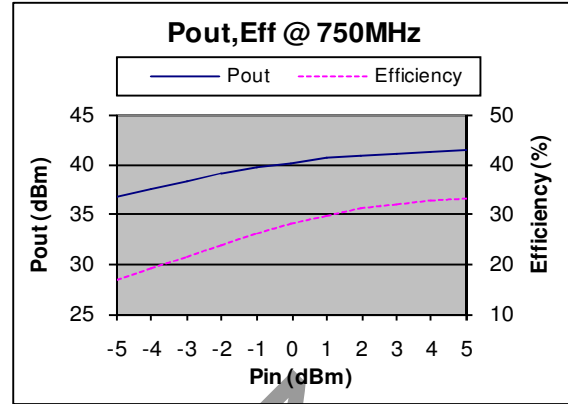
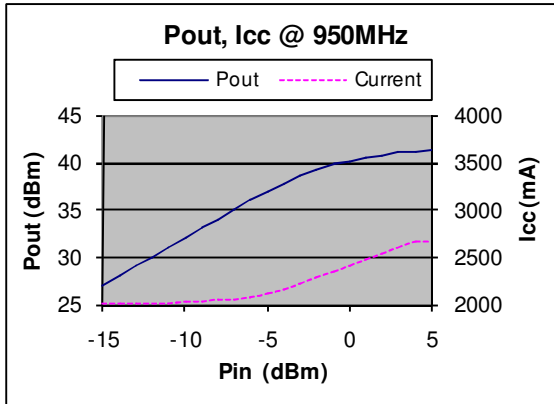
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Typical Performance @ +25 °C



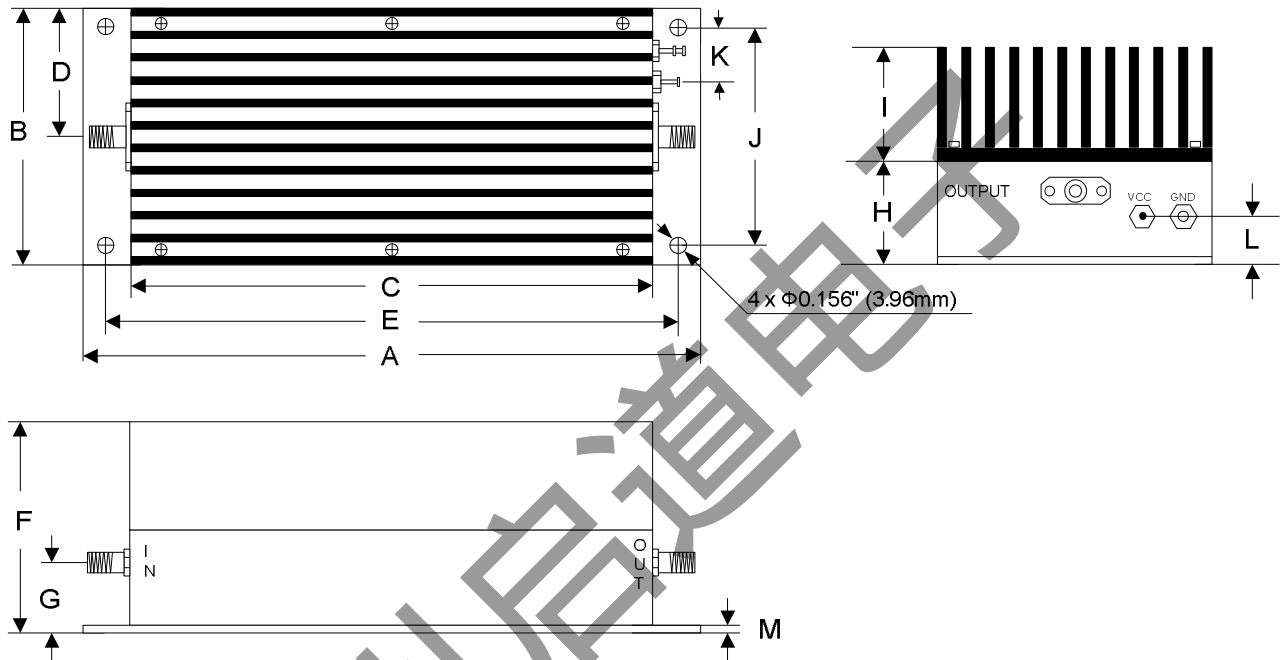
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
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
Inch	7.000	3.250	6.000	1.625	6.500	2.000	0.650	1.000	1.000
mm	177.80	82.55	152.40	41.28	165.10	50.80	16.51	25.40	25.40
	J	K	L	M					
Inch	2.750	0.625	0.450	0.090					
mm	69.85	15.88	11.43	2.29					