

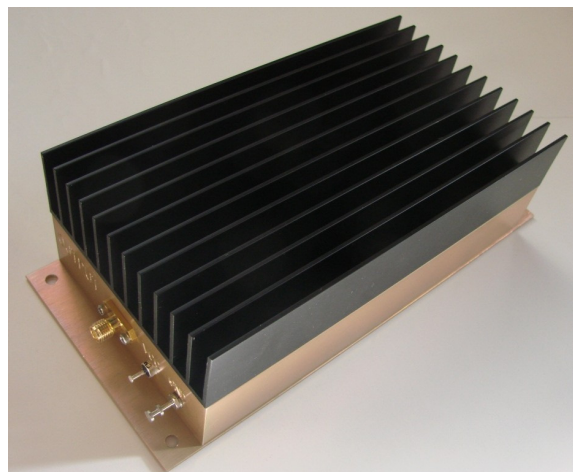
HPA Series

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

Picture



Performance measured @ 850MHz

Description

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

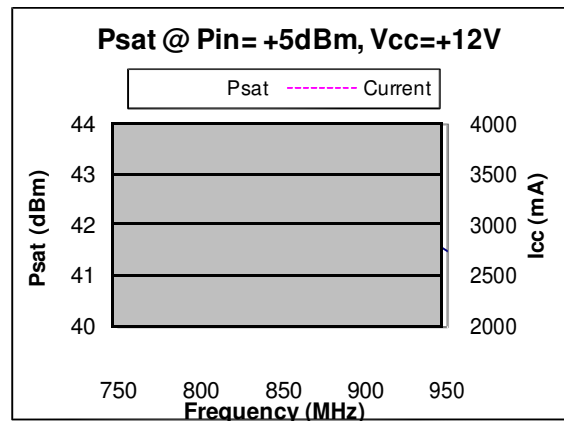
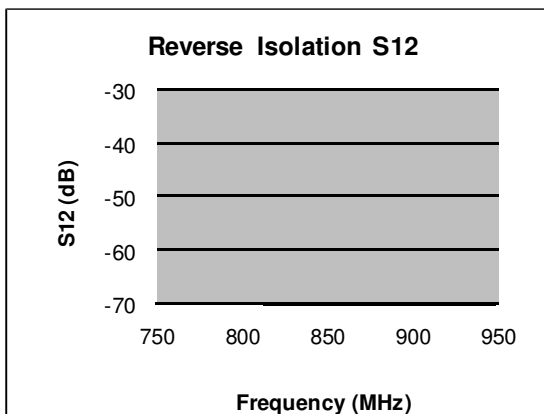
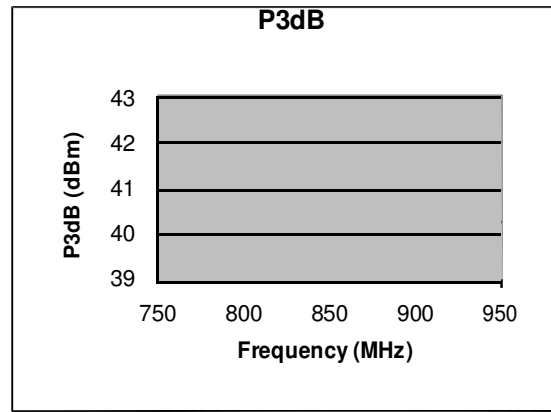
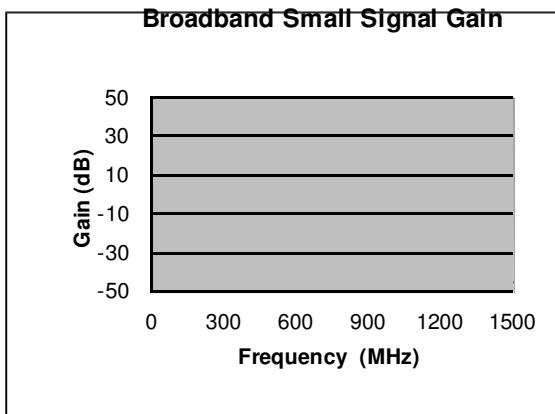
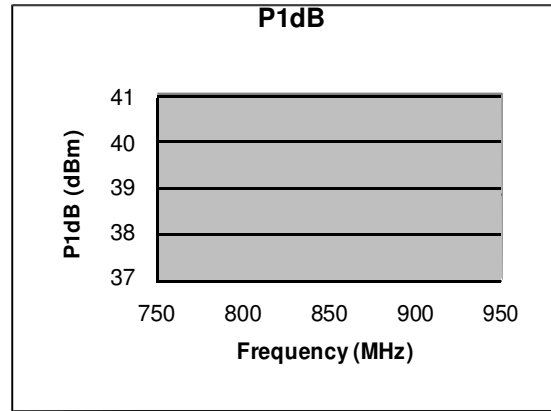
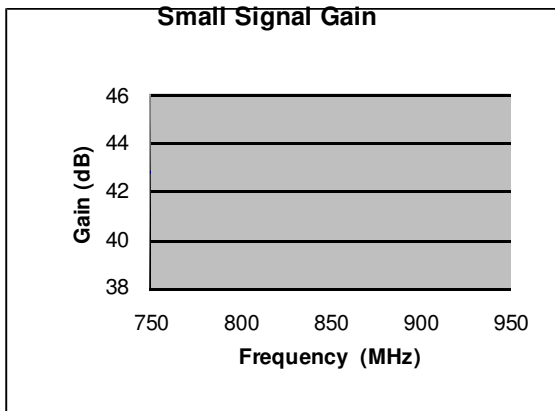
Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ω, V_{cc} = +12V

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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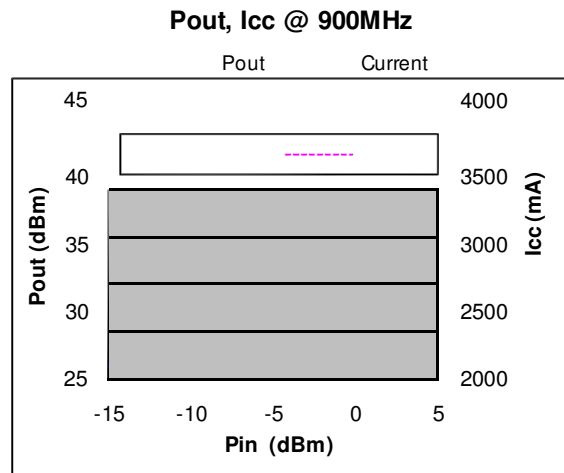
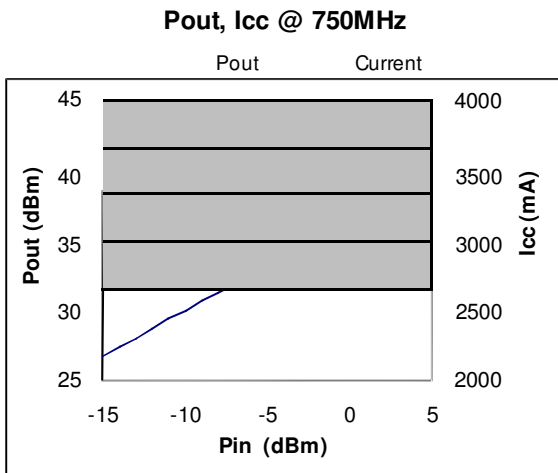
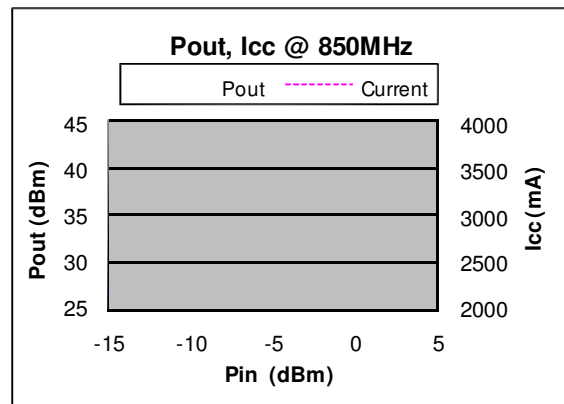
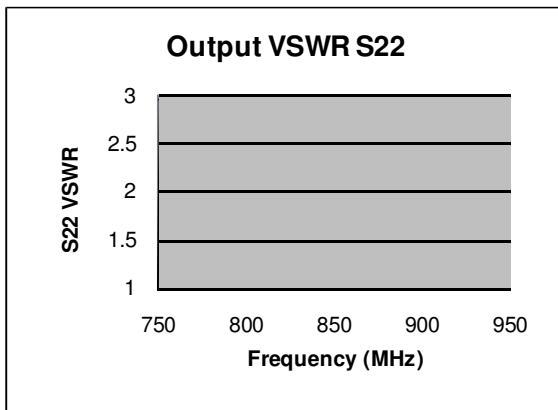
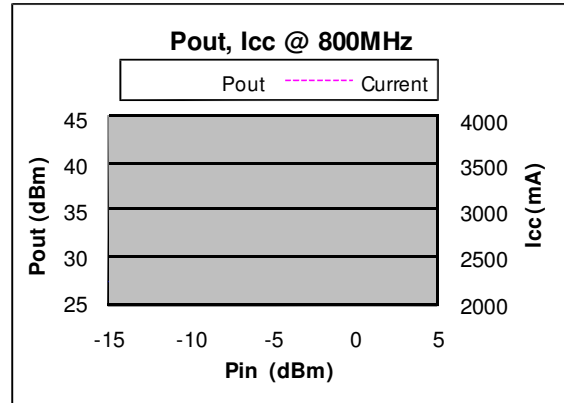
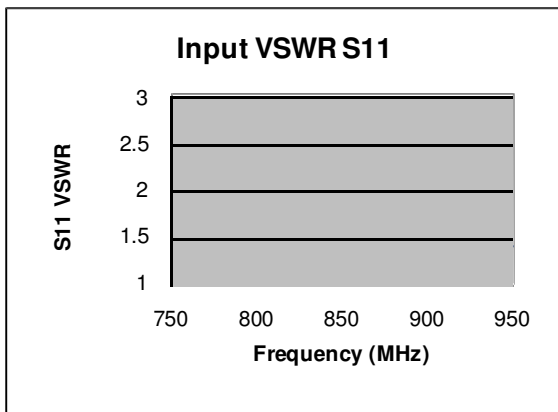
Typical Performance @ +25 °C



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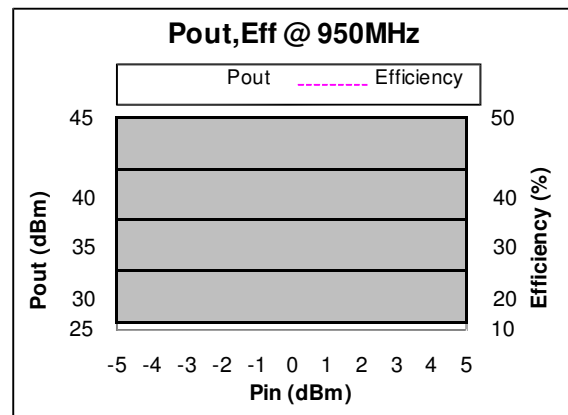
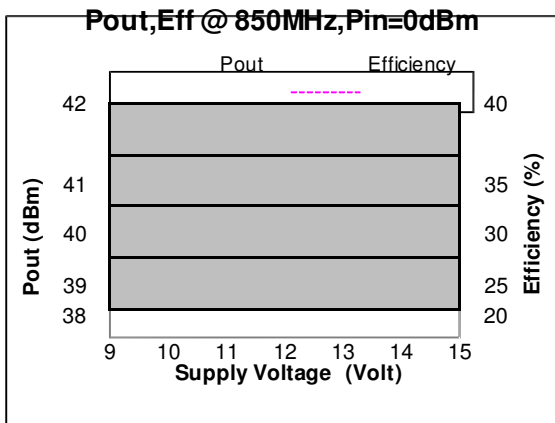
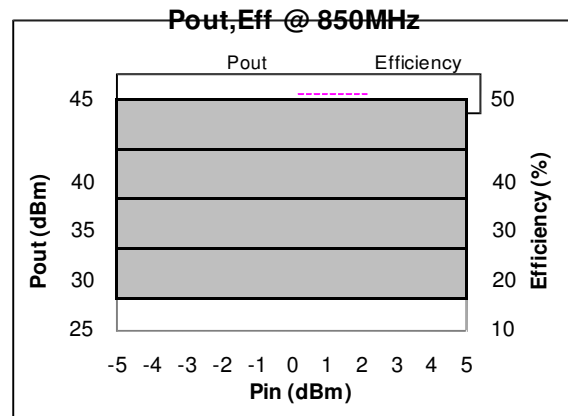
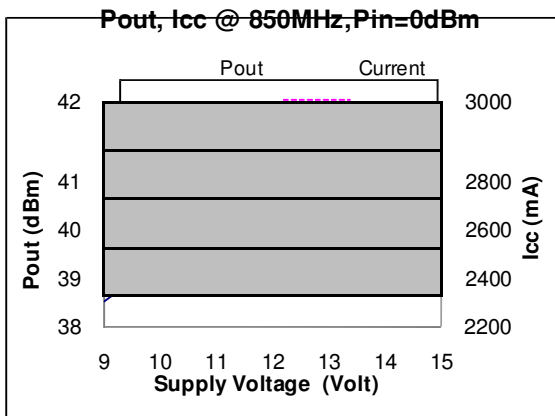
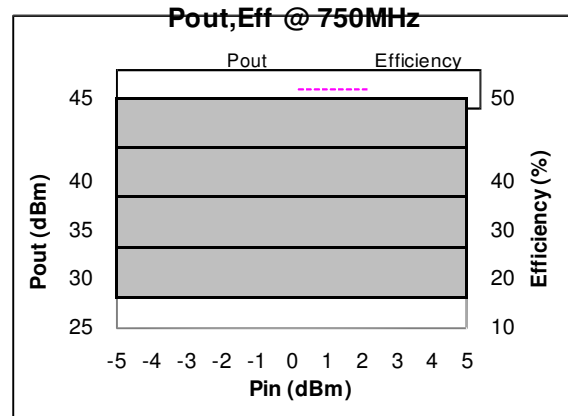
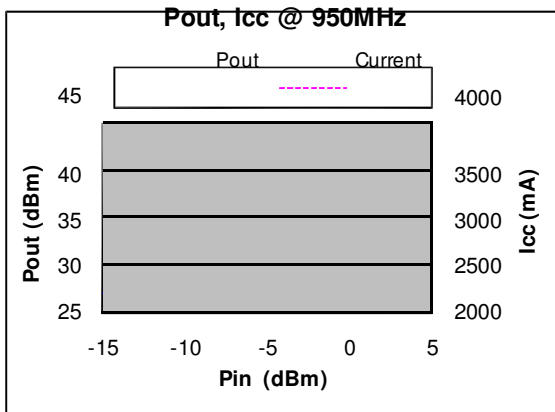
Typical Performance @ +25 °C



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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

