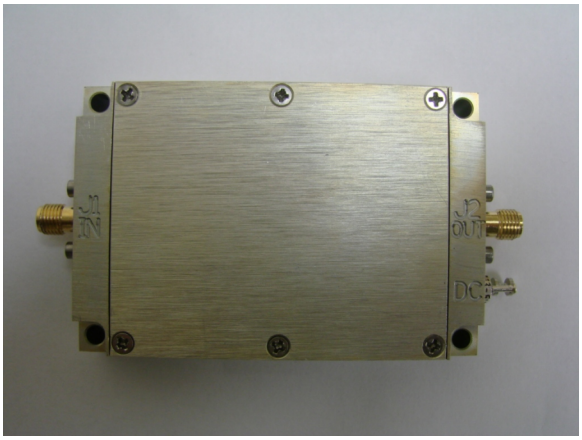
HD29226 *902-928 MHz 10W RF Power Amplifier*

Features

- Frequency Range: 902-928MHz
- Gain: 40dB
- P_{out}: +40dBm
- P_{sat}: +42dBm
- IP3: +50dBm
- DC Power: 12V
- SMA Connector

Performance measured @ 915MHz



Description

HD29226 is a 10Watt (+40dBm) output RF Power Amplifier operating from single 12V DC power supply with frequency range in 900MHz ISM band.

Electrical Specifications @ +25 °C, $Z_S = Z_L = 50\ \Omega$, Vcc = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	902		928
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		+50	
Reverse Isolation	dB		-60	
Efficiency at Pout = +40dBm	%		38	
VSWR Input			1.2:1	
DC Power Supply	V		+12	
Supply Current	mA		2850	
Size (Excluding SMA Connector)	inch	3.000” x 2.000” x 0.625”		
Weight	Oz.	4.8 (135g)		

HD Communications Corp.
332-C Dante Court, Holbrook, NY 11741
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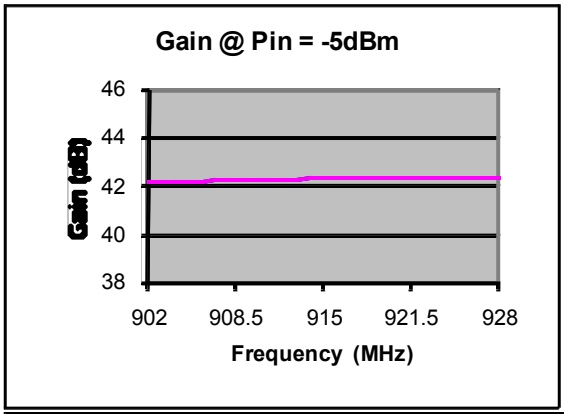
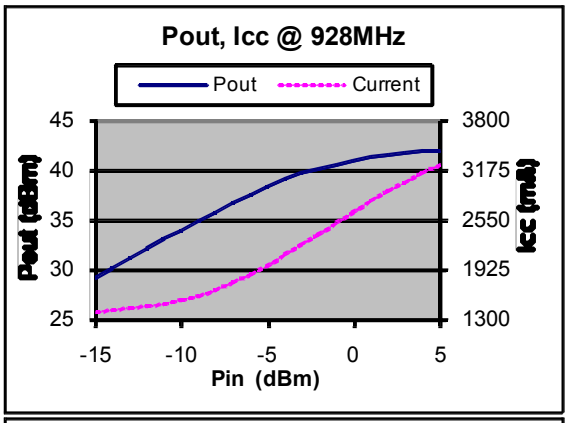
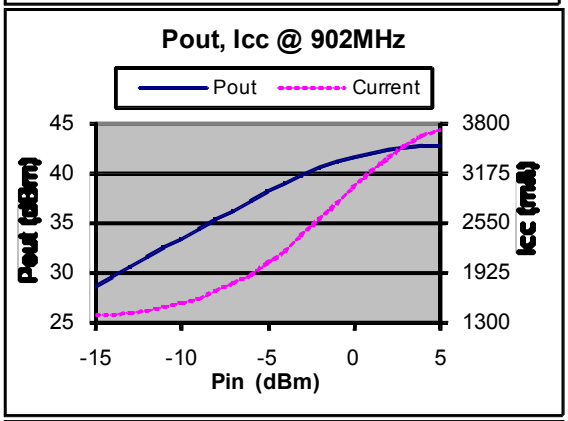
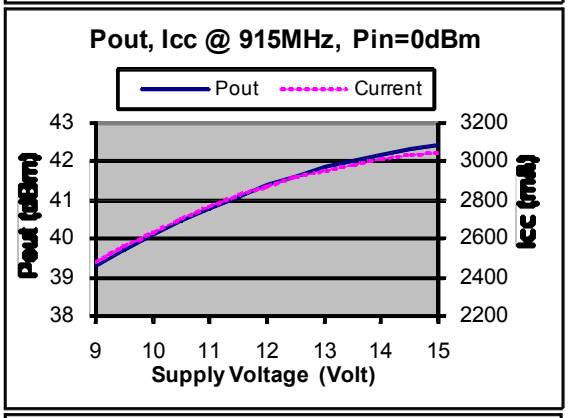
Warning: adequate heatsink required for continuous operation, keep amplifier base plate temperature under +65 °C.

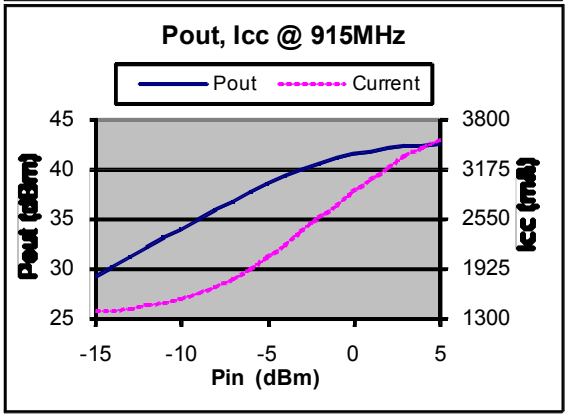
Typical Performance @ +25 °C

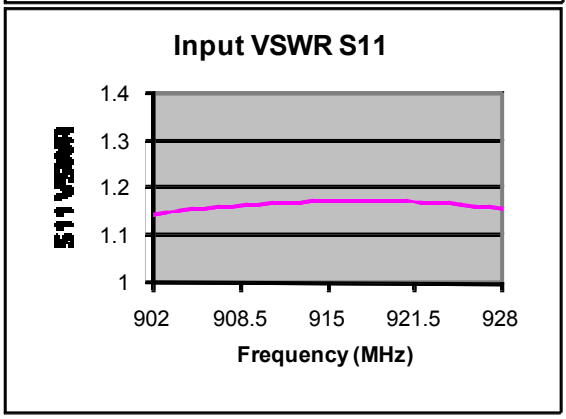












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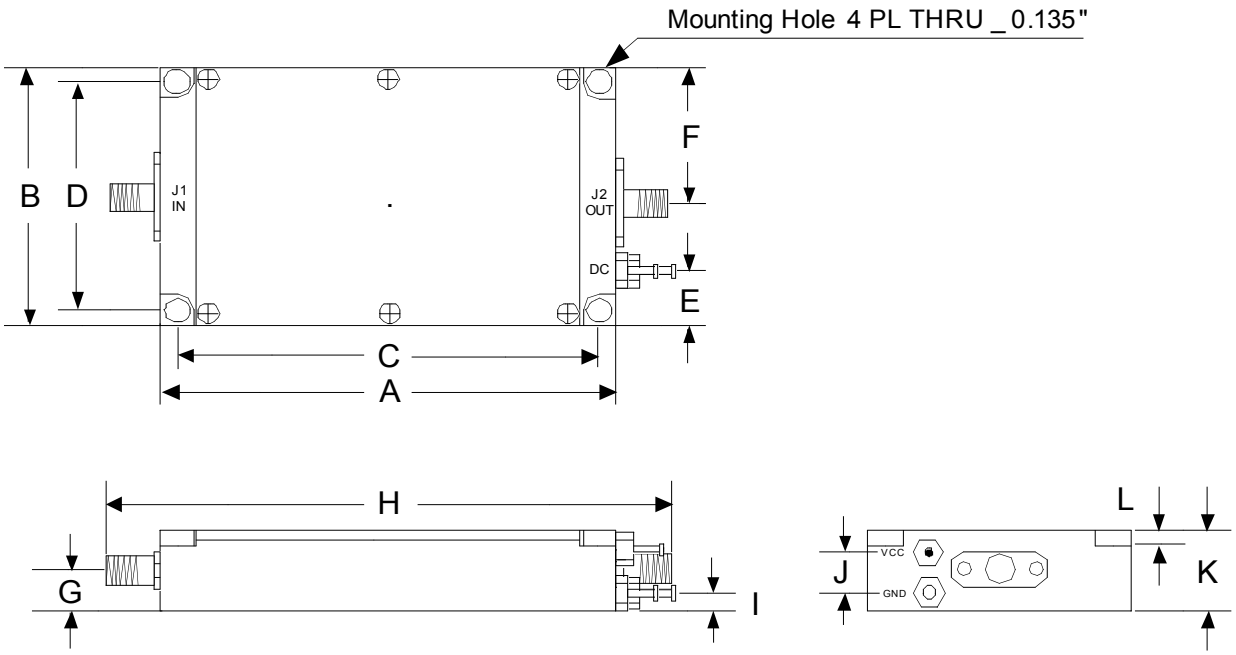
Absolute Maximum Ratings

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	3.000	2.000	2.750	1.750	0.500	1.000	0.300	3.750	0.125
mm	76.20	50.80	69.85	44.45	12.70	25.40	7.62	95.25	3.18
	J	**K**	**L**						
Inch	0.300	0.625	0.150						
mm	7.62	15.88	3.81						