



RF Power Module

Power = 130.0 Watts

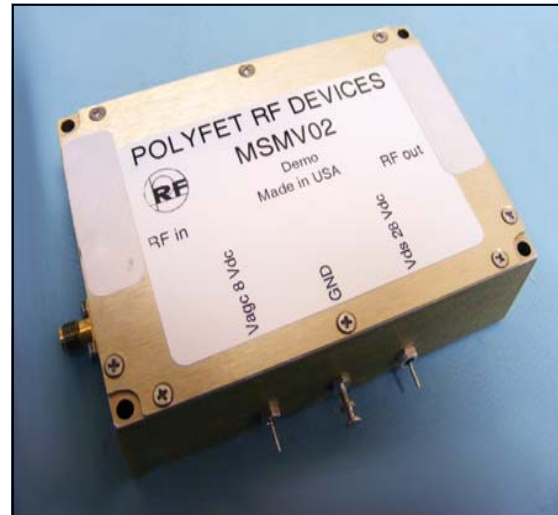
Bandwidth = 225.0 to 1000 Mhz

Gain = 14.0 dB Vdd = 28.0 Volts

50 ohms Input/Output Impedance

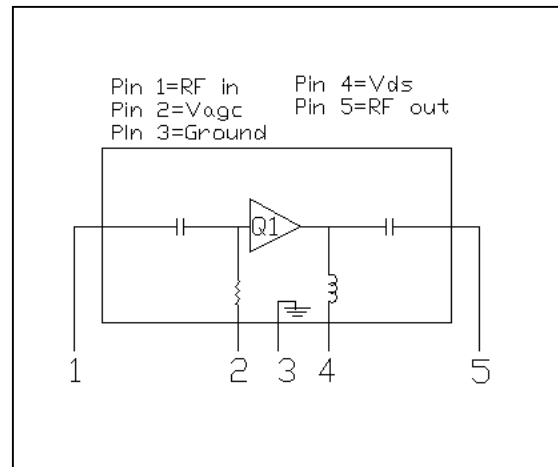
Description

The MSMV02 is a 130 Watt, single stage amplifier module covering a bandwidth of 225-1000 Mhz. This compact module design is suitable for military applications in a rugged environment. An ALC pin is provided to control the output power, gain and blanking of the module.



Absolute Maximum Ratings (T=25 °C)

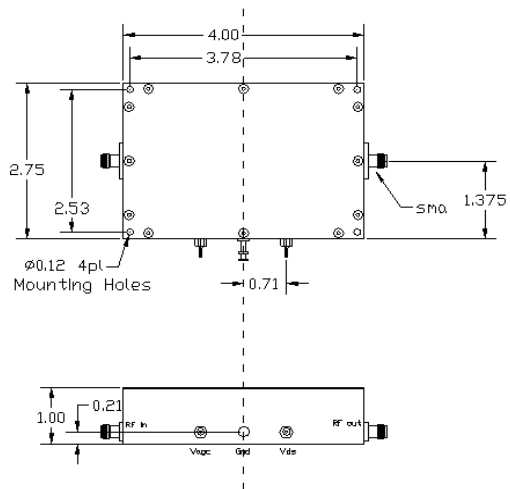
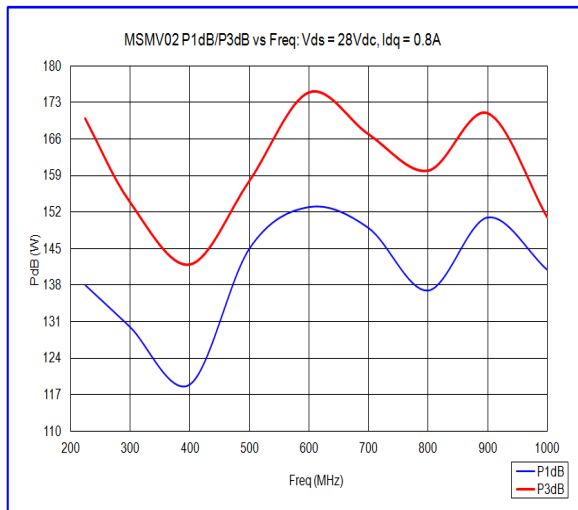
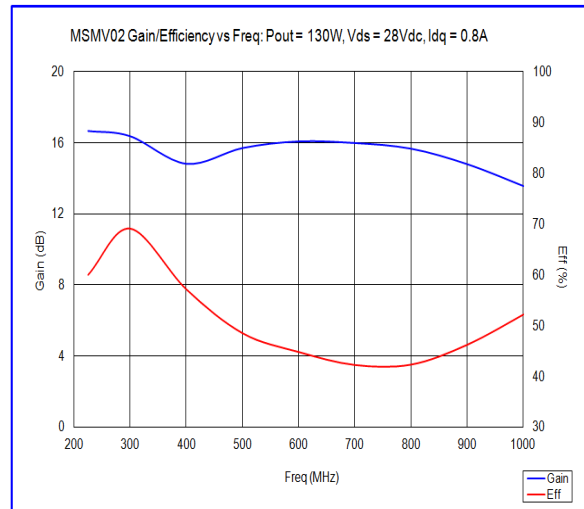
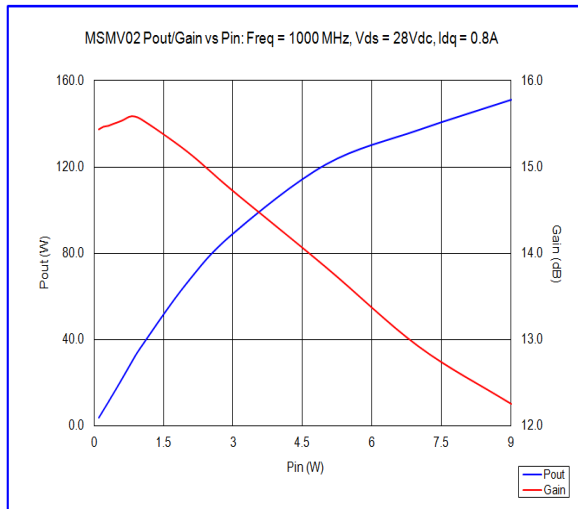
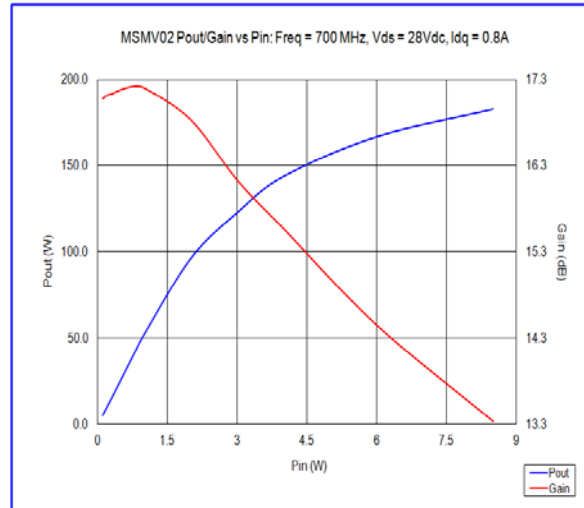
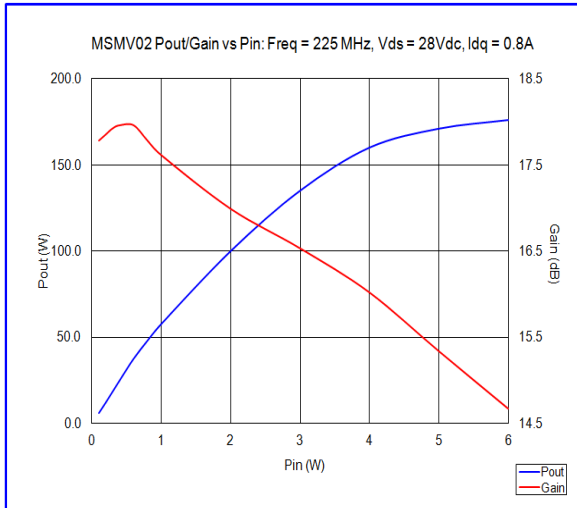
Parameter	Symbol	Value	Unit
DC supply Voltage 1	VDD1	32.0	V
DC supply Voltage 2	VDD2		V
AGC Voltage	VAGC	8.5	V
AGC Current	VAGCI	7.50	mA
Input Power	Pin	9.000	W
Output Power	Pout	150.0	W
Operating Case Temp.	Tc	-40 to +85	°C
Storage Temperature	Tstg	-55 to +100	°C



Electrical Characteristics: (T=25 °C Zs=Zl=50 ohms, Vdd = 28.0 Volts, Idq = 0.8 Amps)

Parameter	Symbol	Min	Typical	Max	Unit	Test Conditions
Frequency Range	BW	225.0		1000	Mhz	50 ohm load
Output Power	Po		130.0		Watts	Pin = 37.0 dbm Vagc = 8.00 V
Power Gain	PG		14.0		dB	Pout =130.0 Watts Vagc = 8.00 V
Total Efficiency	η		50		%	Pout =130.0 Watts
2nd Harmonics	dso		-25.00		dBc	Pout =130.0 Watts @225.0 Mhz
Intermod - 2 tone	Im3		-20.00		dBc	AvePwr= 50.0Watts
Load Mismatch Tolerance	VSWR	20:1			Relative	All Phase Angles Pout = 130.0 W
Vagc Voltage	VAGC			8.00	V	Pin = 37.0 dBm, Pout = 130.0 W
Pulse Response Time	Pr			1.0	uS	Pulse source: RFin

MSMV02



POLYFET RF DEVICES

REVISION 05/15/2015

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