



RF Power Module

Power = 40.0 Watts

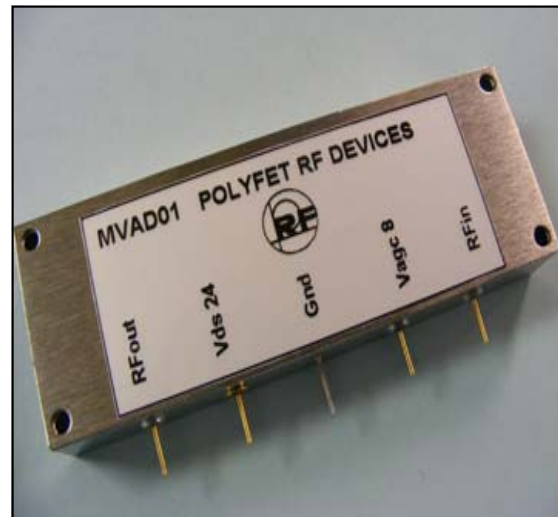
Bandwidth = 2 to 30 Mhz

Gain = 30.0 dB Vdd =24.0 Volts

50 ohms Input/Output Impedance

Description

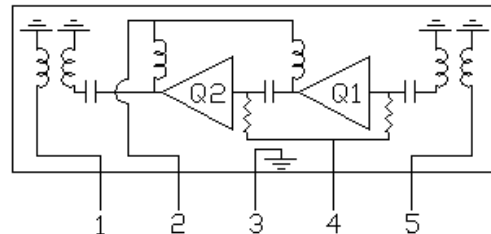
The MVAD01 is a 40 Watt, 2 stage high gain amplifier module covering a bandwidth of 2-30 Mhz. The operating temperature range is extended to -40C to +85C



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	10.0	V
AGC Current	VAGCI	5.00	mA
Input Power	Pin	0.060	W
Output Power	Pout	60.0	W
Operating Case Temp.	Tc	-40 to +85	°C
Storage Temperature	Tstg	-55 to +100	°C

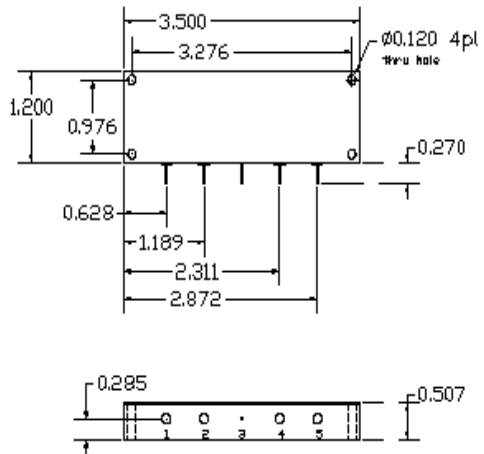
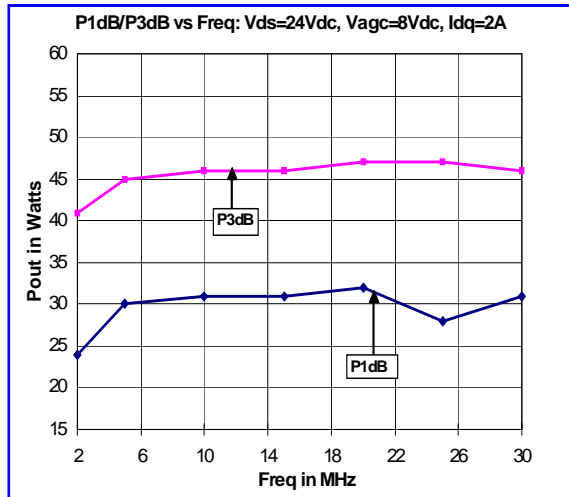
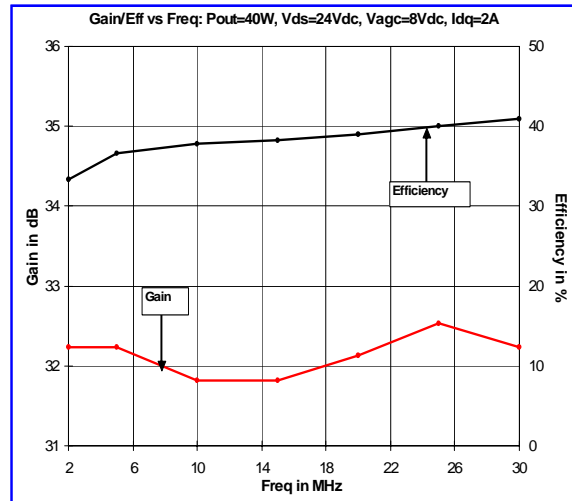
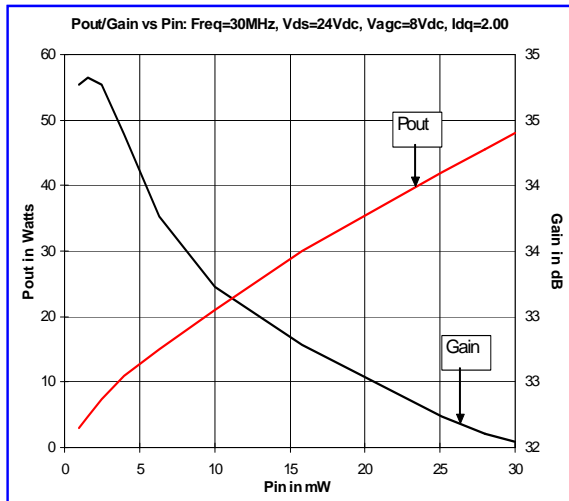
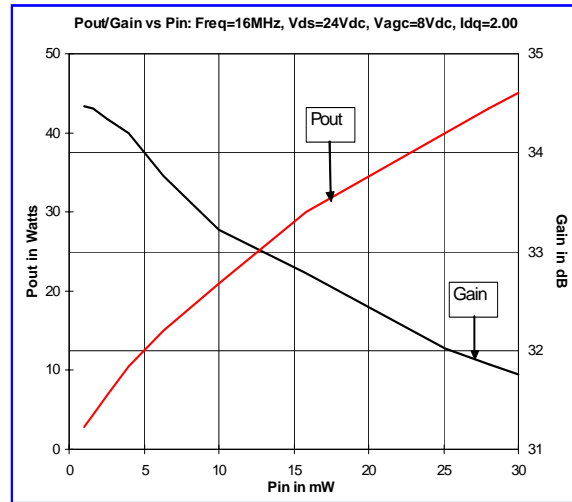
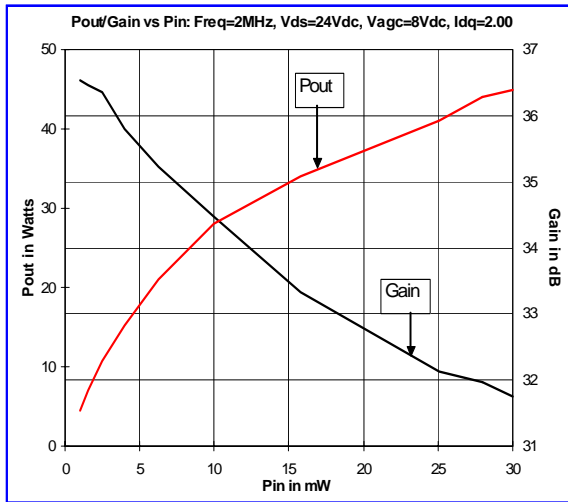
Pin 1= RF OUT Pin 4= Vagc
 Pin 2= Vds Pin 5= RF IN
 Pin 3= Gnd



Electrical Characteristics: (T=25 °C Zs=Zl=50 ohms, Vdd = 24.0 Volts, Idq = 2.0 Amps)

Parameter	Symbol	Min	Typical	Max	Unit	Test Conditions
Frequency Range	BW	2		30	Mhz	50 ohm load
Output Power	Po	40.0			Watts	Pin = 16.0 dbm Vagc = 8.0 V
Power Gain	PG	30.0			dB	Pout = 40.0 Watts Vagc = 8.0 V
Total Efficiency	η	30			%	Pout = 40.0 Watts
2nd Harmonics	dso		-20.00		dBc	Pout = 40.0 Watts @ 2.0 Mhz
Intermod - 2 tone	Im3				dBc	AvePwr= Watts
Load Mismatch Tolerance	VSWR	10:1			Relative	All Phase Angles Pout = 40.0Watts
Vagc Voltage	VAGC			8.0	V	Pin = 16.0 dBm, Pout = 40.0 W
Pulse Response Time	Pr			200.0	uS	Pulse source:

MVAD01



POLYFET RF DEVICES

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