



RF Power Module

Power =200.0 Watts

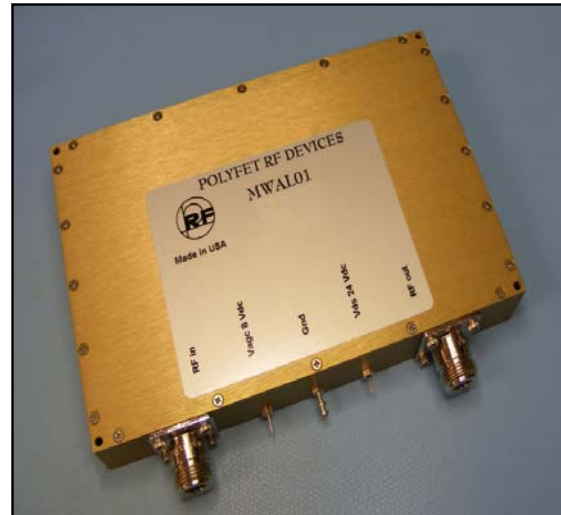
Bandwidth = 2 to 30 Mhz

Gain = 55.0 dB Vdd =24.0 Volts

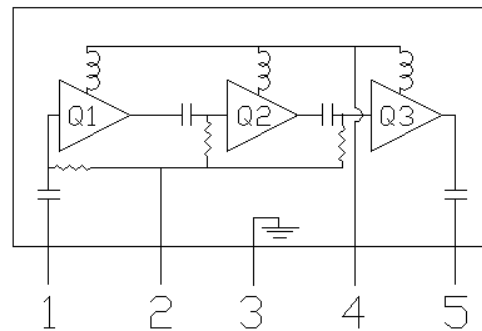
50 ohms Input/Output Impedance

Description

The MWAL01 is a 200 Watt, high gain amplifier module covering a bandwidth of 2-30 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.



Pin 1= RF in Pin 4=Vds
 Pin 2= Vagc Pin 5= RF out
 Pin 3= Gnd



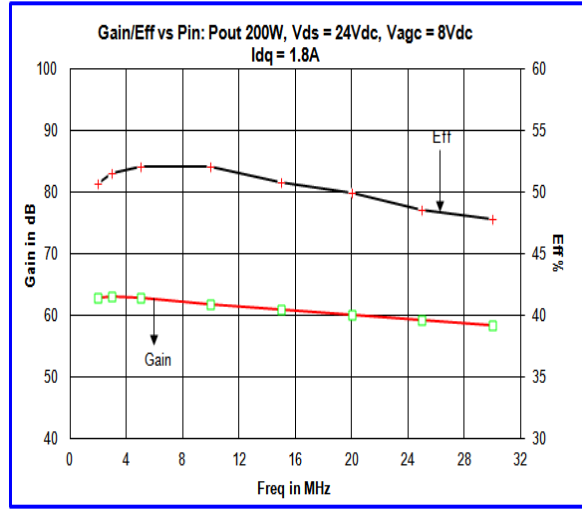
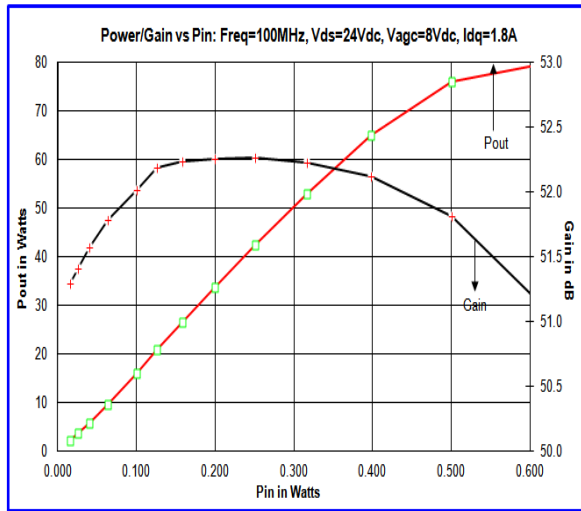
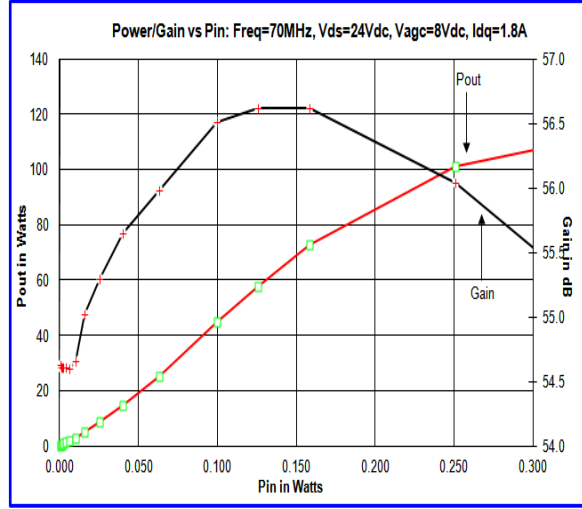
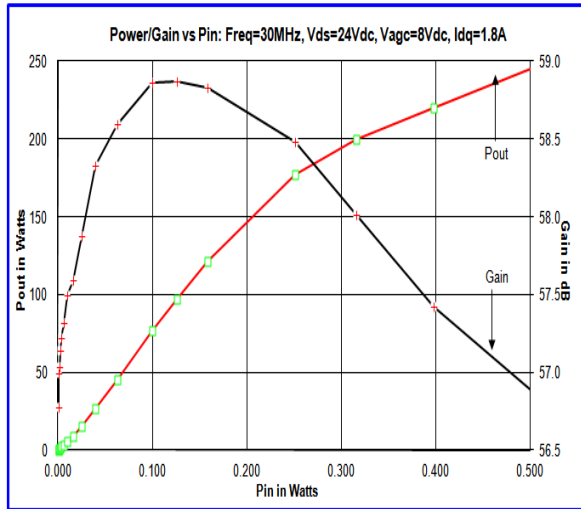
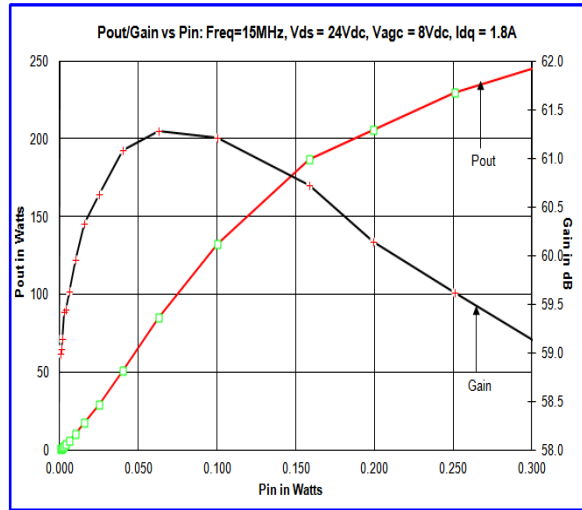
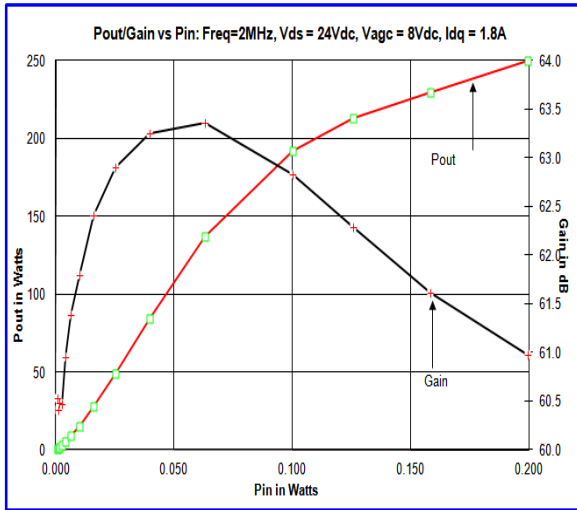
Absolute Maximum Ratings (T=25 °C)

Parameter	Symbol	Value	Unit
DC supply Voltage 1	VDD1	32.0	V
DC supply Voltage 2	VDD2		V
AGC Voltage	VAGC	9.0	V
AGC Current	VAGCI	1.00	mA
Input Power	Pin	0.500	mW
Output Power	Pout	240.0	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 = 24.0 Volts, Idq = 1.8 Amps)

Parameter	Symbol	Min	Typical	Max	Unit	Test Conditions
Frequency Range	BW	2		30	Mhz	50 ohm load
Output Power	Po	200.0			Watts	Pin = -2.0 dbm Vagc = 8.00 V
Power Gain	PG	55.0			dB	Pout =200.0 Watts Vagc = 8.00 V
Total Efficiency	η		50		%	Pout =200.0 Watts
2nd Harmonics	ds0		-30.00		dBc	Pout =200.0 Watts @ Mhz
Intermod - 2 tone	Im3	-20.00			dBc	AvePwr= 100.0Watts
Load Mismatch Tolerance	VSWR	10:1			Relative	All Phase Angles Pout =200.0Watts
Vagc Voltage	VAGC			8.00	V	Pin = -2.0 dBm, Pout = 200.0 W
Pulse Response Time	Pr			20.0	uS	Pulse source: Vagc

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