



Power RF Amplifiers

Power = 10.0 Watts

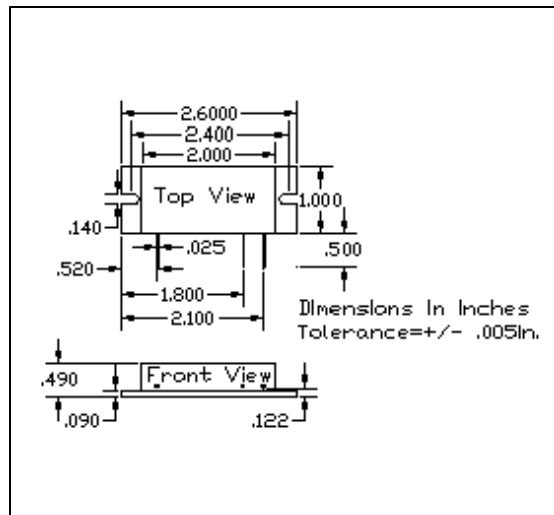
Bandwidth = 380 to 512 Mhz

Gain = 25.0 dB Vdd = 28.0 Volts

50 ohms Input/Output Impedance

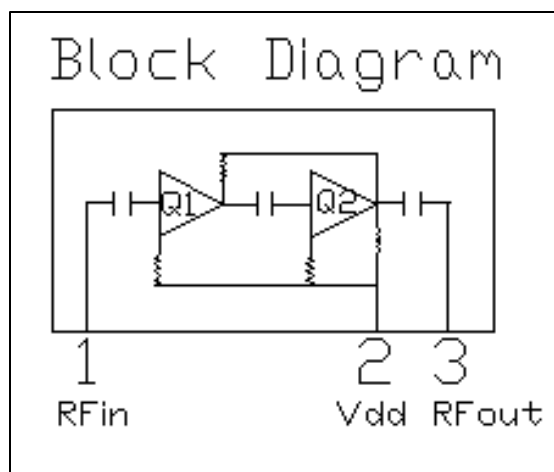
Description

The PHM017 is a 10 Watt FM / 2 Watt AM amplifier module covering a bandwidth of 380-512 Mhz. It has a high IP3 rating when operated in the AM mode. This dual stage amplifier is specifically designed for Tetra and Land Mobile UHF band portable radio applications. External Gate bias pin option is available upon request.



Absolute Maximum Ratings (T=25 °C)

Parameter	Symbol	Value	Unit
DC supply Voltage 1	VDD1	32.0	V
DC supply Voltage 2	VDD2		V
Input Power	Pin	0.02	W
Output Power	Pout	13.0	W
Operating Case Temp.	Tc	-20 to +70	°C
Storage Temperature	Tstg	-30 to +100	°C



Electrical Characteristics: (T=25°C Zs=Zl=50 ohms. Vdd=28.0 Volts)

Parameter	Symbol	Min	Typical	Max	Unit	Test Conditions
Frequency Range	BW	380		512	Mhz	50 ohm load
Output Power	Po	10.0			Watts	Idq = 1.2 Amps
Power Gain	PG	25.0			dB	@ Pout = 10.0 Watts
Total Efficiency	h	25			%	@ Pout = 10.0 Watts
2nd Harmonics	dso				dBc	@ Pout = 10.0 W. Freq = 446 Mhz
Intermod - 2 tone	Ip3	50.00			dBm	Freq = 446 Mhz; AvePwr= 2.0 W
Load Mismatch Tolerance	VSWR	10:1			Relative	All Phase Angles

PHM017

