



### Power RF Amplifiers

**Power = 3 Watts**

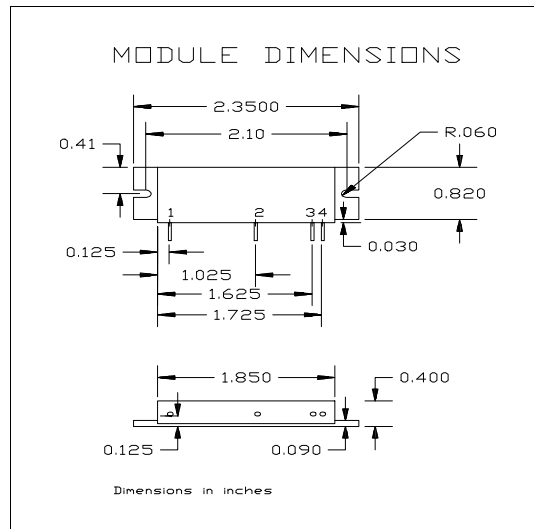
**Bandwidth = 225 to 400 Mhz**

**Gain = 9.5dB Vdd = 7 Volts**

**50 ohms Input/Output Impedance**

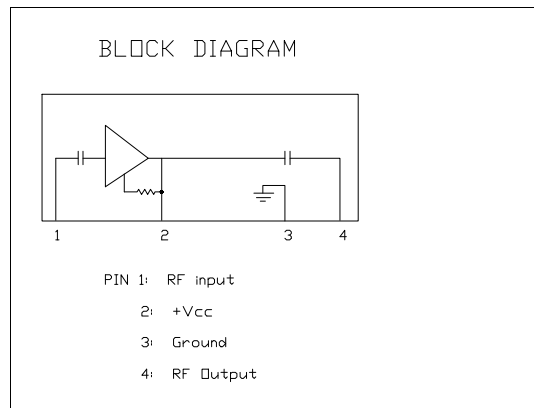
### Description

The PHM001 is a single stage amplifier specifically designed for Military Bandwidth. This amplifier can be used as a final stage for portable radio applications.



### Absolute Maximum Ratings ( T = 25° C,

Parameter	Symbol	Value	Unit
DC supply Voltage	Vds	10	V
Input Power	Pin	1.25	W
Output Power	Pout	4	W
Operating Case Temp.	Tc	-20 to +70	°C
Storage Temp.	Tstg	-30 to +100	°C



### Electrical Characteristics: ( T = 25° C Zs=Zl=50 ohms. Vdd = 7 Volts )

Parameter	Symbol	Min	Typical	Max	Unit	Test Conditions
Frequency Range	BW	225		400	Mhz	50 ohm load
Output Power	Po	3			Watts	Idq = 0.6 Amps
Power Gain	PG	9.5			dB	@ Pout = 3 Watts
Total Efficiency	η	45			%	@ Pout = 3 Watts
2nd Harmonics	dso		-30		dBc	@ Pout = 3 W. Freq = 325 Mhz
Intermod - 2 tone	Ip3				dBm	Freq = 325 Mhz
Load MismatchTolerance	VSWR	10:1			Relative	All Phase Angles

# PHM001

