

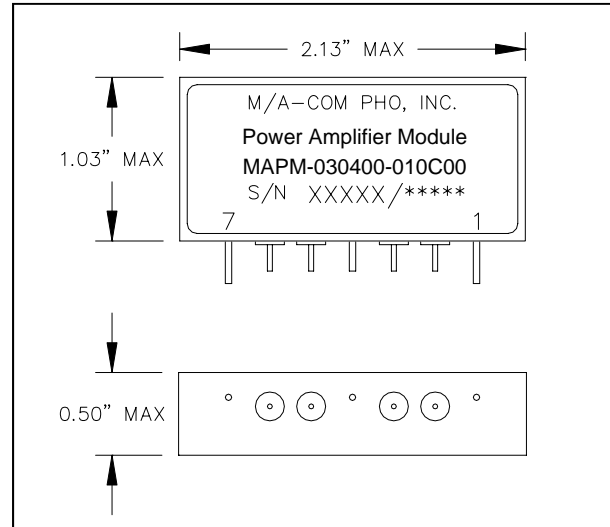
Features

- Frequency band 30 - 400 MHz
- Output power: 10 W CW Min
- Power gain: 25dB Typ
- Built - in gain control
- AM Modulation capable
- Field proven transistor die
- Rugged construction for extreme environments
- Suitable for most commercial and industrial applications.

Absolute Maximum Ratings

Parameter	Rating	Units
Supply Voltage	30	V
Input Power	20	dBm
Output Power	25	W
Bias Current	1.0	A
Operating Case Temperature	-40 - 100	°C
Storage Temperature	-50 - 100	°C

Product Image



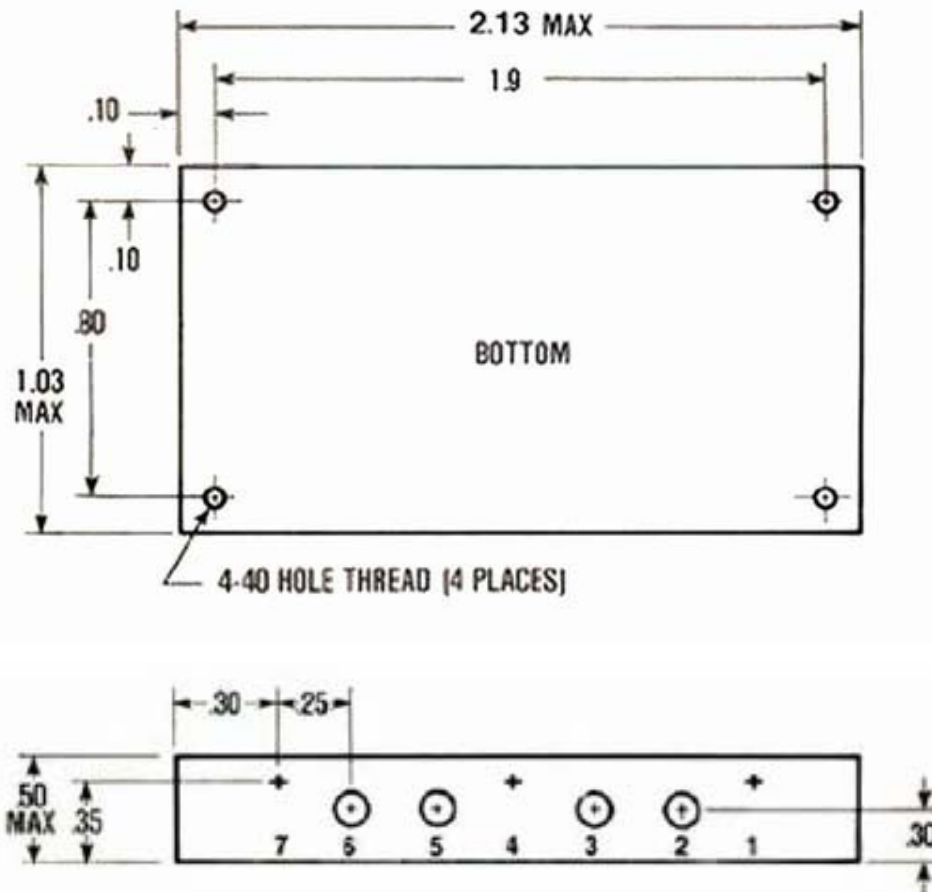
Electrical Specifications: $T_c = 25 \pm 5 \text{ }^\circ\text{C}$

Parameter	Test Conditions	Min	Typ	Max	Units
Output Power (CW)	$V_D = 28 \text{ V}$, $V_{ALC} = 10.0\text{V}$	10	-	-	W
Power Gain	$V_D = 28 \text{ V}$, $V_{ALC} = 10.0\text{V}$	-	25	-	dB
Gain Variation With Frequency	$V_D = 28 \text{ V}$, $V_{ALC} = 10.0\text{V}$	-	± 3.0	-	dB
Input VSWR	$V_D = 28 \text{ V}$, $P_{out} = 5 \text{ watt}$	-	1.5:1	-	VSWR
Load Mismatch Tolerance	$V_D = 28 \text{ V}$, $P_{out} = 5 \text{ watt}$	-	3:1	-	VSWR
Even Harmonics	$V_D = 28 \text{ V}$, $P_{out} = 5 \text{ watt}$	-	-	-25	dBc
Odd Harmonics	$V_D = 28 \text{ V}$, $P_{out} = 5 \text{ watt}$	-	-	-15	dBc
Spurious Output	$V_D = 28 \text{ V}$, $P_{out} = 5 \text{ watt}$	-	-	-80	dBc

Typical Data

Freq (MHz)	P1dB (dBm)	P1dB (Watts)	Id @ P1dB (Amps)	Eff @ P1dB (%)	Gain (dB)	VDC (Volts)	Vctrl (Volts)
20	41.9	15.3	1.68	32.5	32.1	28	10.00
30	42.8	18.9	1.79	37.8	33.9	-	-
50	43.6	23.0	1.88	43.6	35.1	-	-
100	43.0	20.0	1.82	39.2	32.6	-	-
200	40.8	11.9	1.56	27.2	29.0	-	-
300	42.8	19.1	2.12	32.1	33.0	-	-
325	42.0	15.8	1.86	30.4	31.7	-	-
350	41.2	13.2	1.59	29.6	29.0	-	-
375	41.3	13.6	1.48	32.7	28.2	-	-
400	41.8	15.0	1.46	36.6	29.1	-	-
420	41.1	12.9	1.33	34.8	29.9	-	-

Outline Drawing



Nickel Plated Aluminum Housing

PIN FUNCTION			
PIN(S)	Function	PIN(S)	Function
1, 4, 7	Ground	5	Vdc Input
2	RF Input	6	RF Output
3	Gain/Bias Control		