

MAPM-030400-060C00



Broadband UHF/VHF Power Module
30 - 400 MHz, 60W

Preliminary - 9/15/08

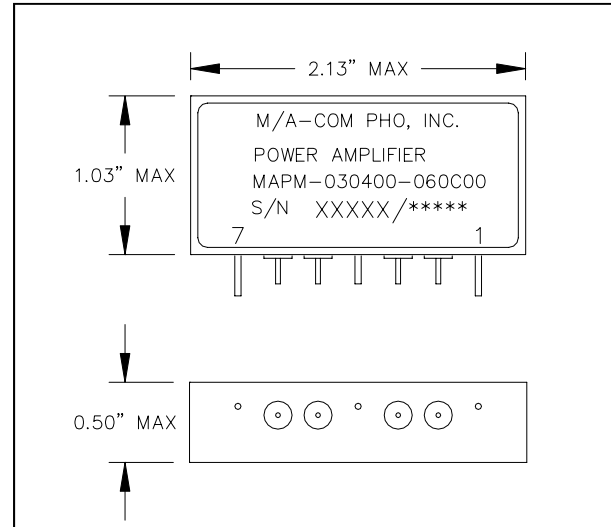
Features

- Broadband operation 30 - 400 MHz
- Output power: 60W CW
- Power gain: 10dB Typ
- Rugged push-pull FET
- External bias control
- Rugged construction for extreme environments
- Suitable for most commercial and industrial applications

Absolute Maximum Ratings

Parameter	Rating	Units
Supply Voltage	30	V
Input Power	10	W
Output Power	120	W
Bias Current	8.0	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)	$V_D = 28 \text{ V}$, $I_{DQ} = 400 \text{ mA}$	-	60	-	W
Power Gain	$V_D = 28 \text{ V}$, $I_{DQ} = 400 \text{ mA}$	9	-	16	dB
Efficiency	$V_D = 28 \text{ V}$, $I_{DQ} = 400 \text{ mA}$, $P_{OUT} = 50 \text{ W}$	-	35	-	%
Input VSWR	$V_D = 28 \text{ V}$, $I_{DQ} = 400 \text{ mA}$	-	3:1	-	VSWR
Load Mismatch Tolerance	$V_D = 28 \text{ V}$, $F = 400 \text{ MHz}$, $P_{OUT} = 30 \text{ W}$	-	3:1	-	VSWR
Even Harmonics	$V_D = 28 \text{ V}$, $I_{DQ} = 400 \text{ mA}$, $P_{OUT} = 30 \text{ W}$	-	-	-25	dBc
Odd Harmonics	$V_D = 28 \text{ V}$, $I_{DQ} = 400 \text{ mA}$, $P_{OUT} = 30 \text{ W}$	-	-	-15	dBc
Spurious Output	$V_D = 28 \text{ V}$, $I_{DQ} = 400 \text{ mA}$, $P_{OUT} = 30 \text{ W}$	-	-	-80	dBc

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ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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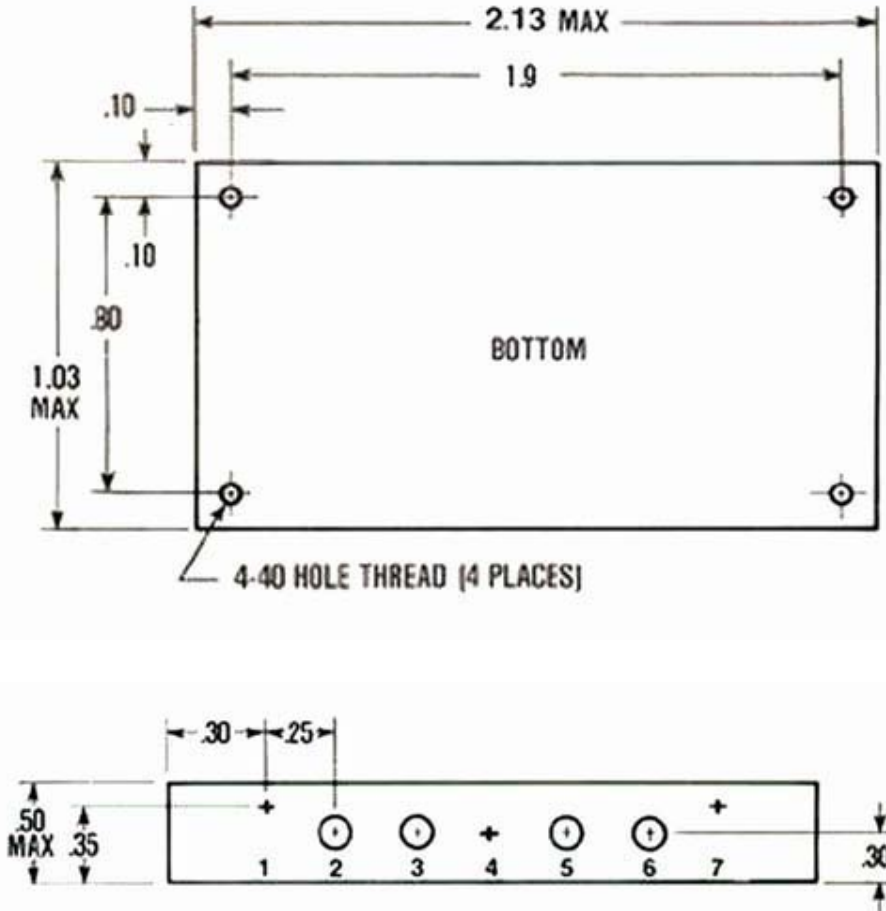
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Visit www.macomtech.com for additional data sheets and product information.

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Outline Drawing



Nickel Plated Copper Housing

PIN FUNCTION			
PIN(S)	Function	PIN(S)	Function
1, 4, 7	Ground	5	Vdc Input
2	RF Input	6	RF Output
3	Vbias		