



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MAPM-020512-040C00



Broadband UHF/VHF Power Module 20 - 512 MHz, 40W

M/A-COM Products
REV 0

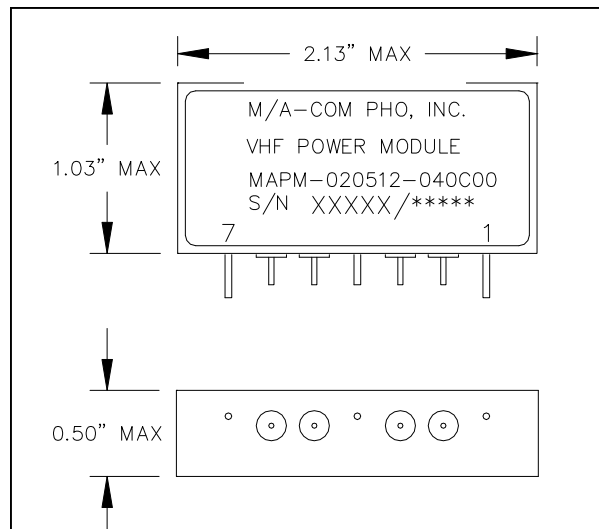
Features

- Broadband operation 20 - 512MHz
- Output power: 30 W Min
- Power gain: 8.0 dB Min
- 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	8	W
Output Power	120	W
Bias Current	6.5	A
Operating Case Temperature	-40 to +85	°C
Storage Temperature	-50 to +100	°C

Product Image



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

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Band	$V_{SUPP} = 28\text{ V}$, $P_{OUT} = 20\text{ watt}$	20	-	512	MHz
P_{1dB}	$V_{SUPP} = 28\text{ V}$, $I_D = 400\text{ mA}$	30	40	-	W
Power Gain	$V_{SUPP} = 28\text{ V}$, $I_D = 400\text{ mA}$	8.0	-	-	dB
Efficiency	$V_{SUPP} = 28\text{ V}$, $I_D = 400\text{ mA}$, $P_{OUT} = 40\text{ W}$	-	37	-	%
Gain Variation With Frequency	$V_{SUPP} = 28\text{ V}$, $P_{OUT} = 4\text{ W}$	-	-	± 2.5	dB
Input VSWR	$V_{SUPP} = 28\text{ V}$, $I_D = 400\text{ mA}$	-	3.5:1	-	VSWR
Load Mismatch Tolerance	$V_{SUPP} = 28\text{ V}$, $F = 512\text{ Mhz}$, $P_{OUT} = 20\text{ W}$	-	5:1	-	VSWR
Even Harmonics	$V_{SUPP} = 28\text{ V}$, $I_D = 400\text{ mA}$, $P_{OUT} = 20\text{ W}$	-	-	-25	dBc
Odd Harmonics	$V_{SUPP} = 28\text{ V}$, $I_D = 400\text{ mA}$, $P_{OUT} = 20\text{ W}$	-	-	-15	dBc
Spurious Output	$V_{SUPP} = 28\text{ V}$, $I_D = 400\text{ mA}$, $P_{OUT} = 20\text{ W}$	-	-	-60	dBc
IP3	$V_{SUPP} = 28\text{ V}$, $P_{OUT} = 20\text{ W}$, $\Delta F = 100\text{ kHz}$	-	56	-	dBm

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

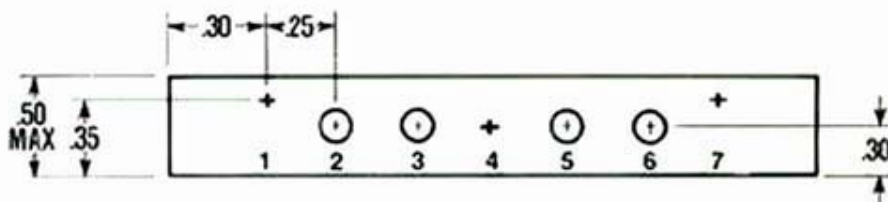
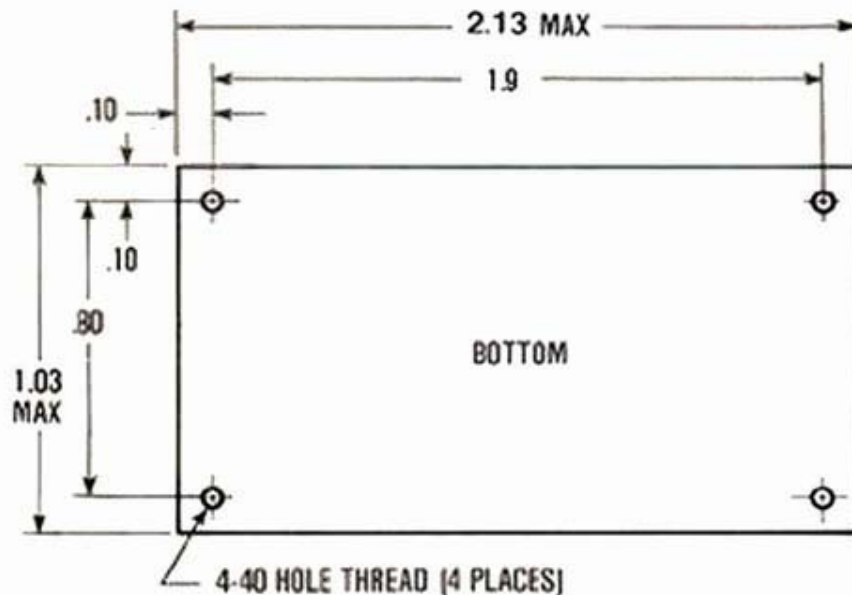
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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Visit www.macom.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		