MAPM-020512-040C00



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

M/A-COM Products REV₀

Features

Broadband operation 20 - 512MHz

Output power: 30 W Min Power gain: 8.0 dB Min Rugged push-pull FET External bias control

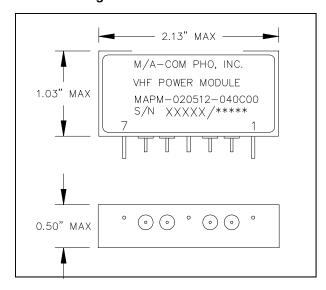
Rugged construction for extreme environments

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	Α
Operating Case Temperature	-40 to +85	°C
Storage Temperature	-50 to +100	°C

Product Image



Electrical Specifications: T_c= 25 + 5 °C

Parameter	Test Conditions	Min	Тур	Max	Units
Frequency Band	V _{SUPP} = 28 V, Pout = 20 watt	20	-	512	MHz
P _{1dB}	V _{SUPP} = 28 V, I _D = 400 mA	30	40	-	W
Power Gain	V _{SUPP} = 28 V, I _D = 400 mA	8.0	-	-	dB
Efficiency	V _{SUPP} = 28 V, I _D = 400 mA, P _{OUT} = 40W	-	37	-	%
Gain Variation With Frequency	V _{SUPP} = 28 V, Pout = 4W	-	-	<u>+</u> 2.5	dB
Input VSWR	V _{SUPP} = 28 V, I _D = 400 mA	-	3.5:1	-	VSWR
Load Mismatch Tolerance	V _{SUPP} = 28 V, F=512Mhz, P _{OUT} = 20W	-	5:1	-	VSWR
Even Harmonics	V _{SUPP} = 28 V, I _D = 400 mA, P _{OUT} = 20W	-	-	-25	dBc
Odd Harmonics	V _{SUPP} = 28 V, I _D = 400 mA, P _{OUT} = 20W	-	-	-15	dBc
Spurious Output	V _{SUPP} = 28 V, I _D = 400 mA, P _{OUT} = 20W	-	-	- 60	dBc
IP3	V _{SUPP} = 28 V,P _{OUT} = 20W , ΔF = 100kHz	-	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.

information contained herein without notice.

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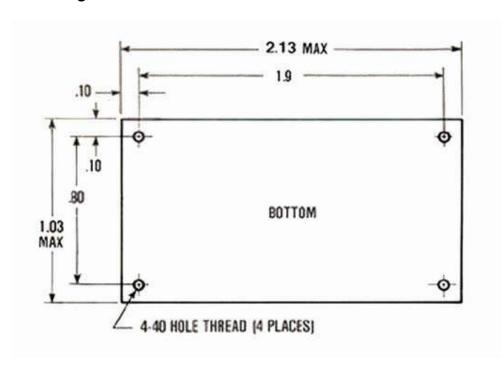
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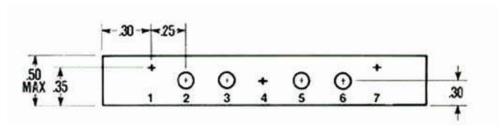


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M/A-COM Products

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						

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