MAPM-020512-010C00

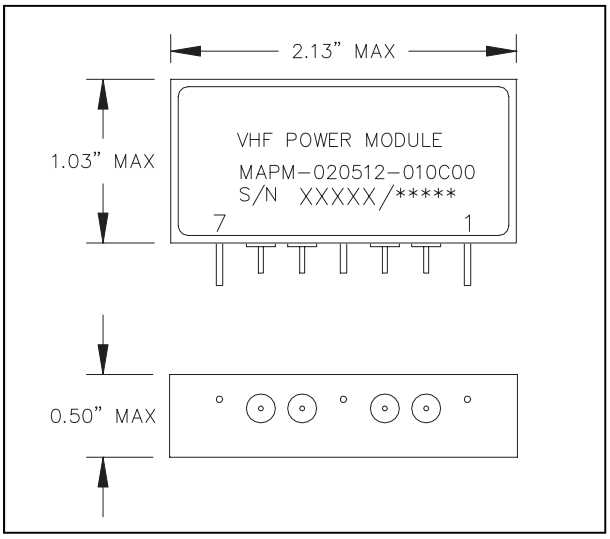
Broadband UHF/VHF Power Module
20 - 512 MHz, 10W

M/A-COM Products
REV 0

Features

- Broadband operation 20 - 512 MHz
- Output power: 7.0W min
- Power gain: 22dB min
- Built - in gain control
- AM Modulation capable
- Rugged construction for extreme environments
- Suitable for most commercial and industrial applications.

Product Image



Absolute Maximum Ratings

Parameter	Rating	Units
Supply Voltage	30	V
Input Power	20	dBm
Output Power	20	W
Supply Current	2.5	A
Operating Case Temperature	-40 to +85	ºC
Storage Temperature	-50 to +100	ºC

Electrical Specifications: T_c= 25 ± 5 ºC

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Band	V_{SUPP} = 28 V, Pout = 4 watt	20	-	512	MHz
P_{1dB}	V_{SUPP} = 28 V, V_{ALC} = 10.0V	7.0	10	-	W
Power Gain	V_{SUPP} = 28 V, V_{ALC} = 10.0V	22	25	-	dB
Gain Control Range	V_{SUPP} = 28 V, V_{ALC} = 0.0 - 10.0V	-	60	-	dB
Gain Variation With Frequency	V_{SUPP} = 28 V, Pout = 4W	-	-	± 3.0	dB
Input VSWR	V_{SUPP} = 28 V	-	3:1	-	VSWR
Load Mismatch Tolerance	V_{SUPP} = 28 V, P_{OUT} = 4W	-	3:1	-	VSWR
Even Harmonics	V_{SUPP} = 28 V, P_{OUT} = 4W	-	-	-25	dBc
Odd Harmonics	V_{SUPP} = 28 V, P_{OUT} = 4W	-	-	-15	dBc
Spurious Output	V_{SUPP} = 28 V, P_{OUT} = 4W	-	-	- 60	dBc
IP3	V_{SUPP} = 28 V, P_{OUT} = 4W , ΔF=100kHz	-	50	-	dBm

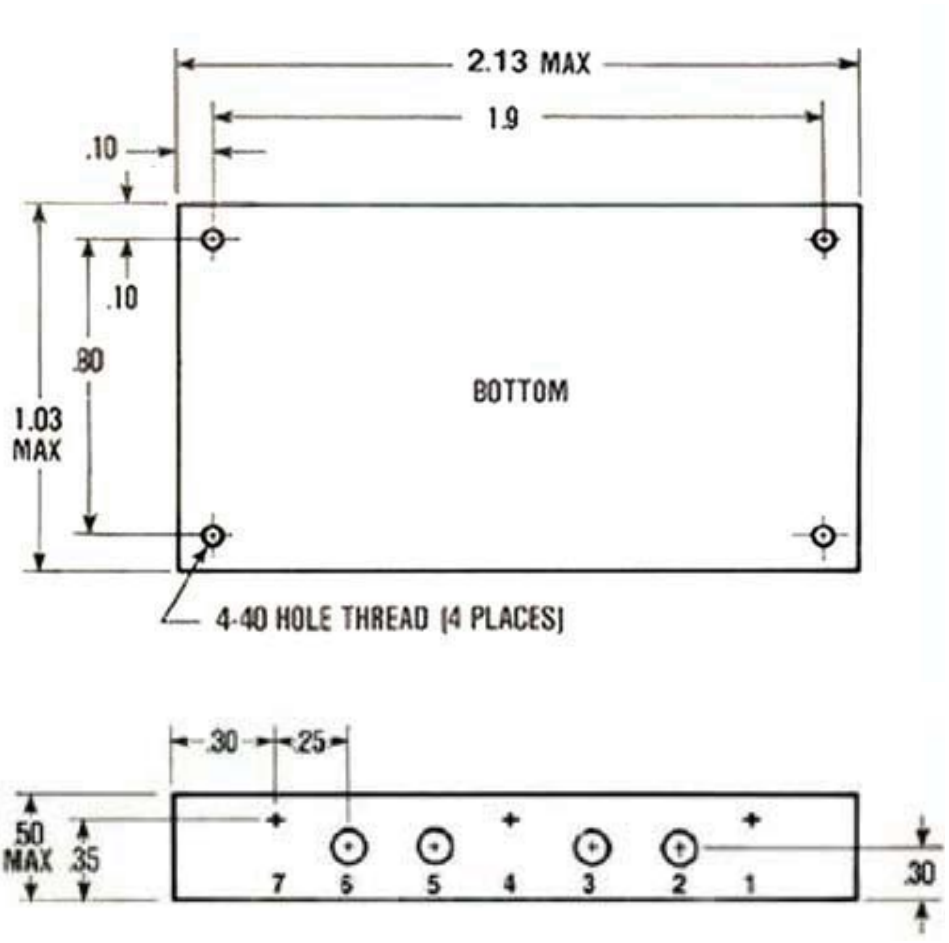
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Outline Drawing



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 Control		

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