

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

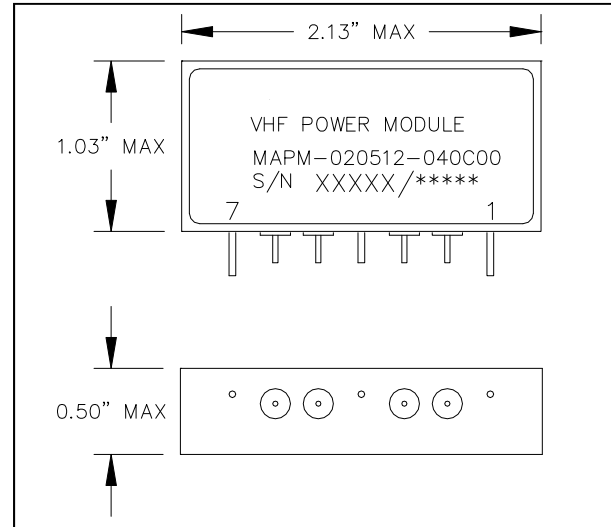
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Features

- Broadband operation 20 - 512MHz
- Output power: 40W CW
- Power gain: ≥ 10 dB
- 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	3.0	A
Operating Case Temperature	-40 - 100	°C
Storage Temperature	-50 - 100	°C



Electrical Specifications: $T_c = 25 \pm 5$ °C

Parameter	Test Conditions	Min	Typ	Max	Units
Output Power (CW)	$V_D = 28$ V, $I_D = 400$ mA	-	40	-	W
Power Gain	$V_D = 28$ V, $I_D = 400$ mA	10	-	15	dB
Efficiency	$V_D = 28$ V, $I_D = 400$ mA, $P_{OUT} = 40$ W	-	37	-	%
Input VSWR	$V_D = 28$ V, $I_D = 400$ mA	-	3:1	-	VSWR
Load Mismatch Tolerance	$V_D = 28$ V, $F = 512$ MHz, $P_{OUT} = 20$ W	-	3:1	-	VSWR
Even Harmonics	$V_D = 28$ V, $I_D = 400$ mA, $P_{OUT} = 20$ W	-	-	-25	dBc
Odd Harmonics	$V_D = 28$ V, $I_D = 400$ mA, $P_{OUT} = 20$ W	-	-	-15	dBc
Spurious Output	$V_D = 28$ V, $I_D = 400$ mA, $P_{OUT} = 20$ W	-	-	-80	dBc

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Technical drawing of the bottom plate of a container. The main view shows a rectangular plate with four 4-40 hole threads. Dimensions include a total width of 2.13 MAX, a distance of 1.9 from the left edge to the first hole, and a total height of 1.03 MAX. A detail view shows a row of seven holes numbered 1 to 7, with dimensions .30 and .25 between them, and overall width dimensions of .50 MAX and .35.

PIN	FUNCTION
1, 4, 7	GROUND
2	RF INPUT
3	Vbias, 0 to +5V
5	VDC INPUT, 28V NOM.
6	RF OUTPUT