MAPM-020512-010C00

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



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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.

Absolute Maximum Ratings

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

Electrical Specifications: T_c= 25 + 5 °C

Parameter	Test Conditions	Min	Тур	Max	Units
Frequency Band	V _{SUPP} = 28 V, Pout = 4 watt	20	-	512	MHz
P _{1dB}	$V_{SUPP} = 28 \text{ V}, V_{ALC} = 10.0 \text{V}$	7.0	10	-	W
Power Gain	$V_{SUPP} = 28 \text{ V}, V_{ALC} = 10.0 \text{V}$	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	-	-	<u>+</u> 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	$V_{SUPP} = 28 \text{ V}, \text{ P}_{OUT} = 4 \text{W}$	-	-	-15	dBc
Spurious Output	$V_{SUPP} = 28 \text{ V}, \text{ P}_{OUT} = 4 \text{W}$	-	-	- 60	dBc
IP3	V_{SUPP} = 28 V, P_{OUT} = 4W , ΔF =100kHz	-	50	-	dBm

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