



**PM400-1000-20**  
**400-1000 MHz – 20W**  
**Solid State Broadband**  
**High Power Amplifier Module**

The PM400-1000-20 is a 20W amplifier module for the 400-1000 MHz band. This Class A/AB amplifier utilizes three LDMOS gain stages providing power gain of 44 dB at 20 Watts. A quadrature combined output provides an excellent match for the pallet when integrating into a 50 ohm system. The PM400-1000-20 is ideal for laboratory and other broadband UHF applications.



**Specifications**

(Pout =20W, Vsupply=+28V Vdc, Idq=2.45A, T<sub>Base</sub>=25°C)

Parameter	Min	Typ	Max.	Unit
Frequency	400		1000	MHz
Pout P1dB	15	20		Watts
Gain	42	44		dB
Power In		0.8	1.3	mW
Drain Current Pout=10W		3.8		Amps
Input VSWR		1.3:1	1.5:1	
2 <sup>nd</sup> Harmonic		-30	-16	dBc
3 <sup>rd</sup> Harmonic		-40	-30	dBc
Housing Base Operating Temp.	0		+60	°C
Size	3.02"x6.52"x.1.125"			

**Features**

- 20 Watts Class A/AB
- 50 ohms input/output
- No circuit tuning or RF assembly

**Maximum Ratings**

Parameter	Value
Input Voltage	+30 VDC
Bias Current	2.5 Amp
Drain Current	5.0 Amp
Load Mismatch	5:1
All Phase angles, Drain current limited to 5.0A. 3 sec max	
Housing Base Temp.	+60°C
Storage Temp	-40° - +105°C



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