



# PM20-512-10

## 20 to 512 MHz, 10W

### Solid State

### High Power Module Amplifier

The PM20-512-10 is a 10W, class “A” Linear amplifier module for the 20-512 MHz band. It offers superior performance offering high gain and power in a small module footprint using advanced broadband matching techniques and the finest Gold MOSFET transistors available on the market today. Matched for 50 ohms input and output, the PM20-512-10 is a Class A amplifier providing a minimum of 10 watts P1dB making this the natural choice for your broadband applications, including military communications and jamming covering both 20-500 MHz and 30-512 MHz bands.



### Specifications

(Vsupply=+28V Vdc, Idq=2.0A, TBase=25°C)

Parameter	Min.	Typ	Max.	Unit
Frequency	20		512	MHz
Pout CW P1dB	+40			dBm
Power In		-5		dBm
Gain	42	45		dB
Gain Flatness		+/-1.5		dB
Drain Current		2.2		Amps
Input R/L			-14	dB
Supply Voltage	24	28	30	Volt
IMD <sub>3</sub> , 2 tone 10W PEP, Δf=10KHz		-34	-28	dBc
2 <sup>nd</sup> Harmonic		-30	-20	dBc
3 <sup>rd</sup> Harmonic		-30	-25	dBc
Physical Dimensions	2.0"x4.0"x1.0			

### Features

- 10 Watts P1dB Class A
- 50 ohms input/output
- Bandwidth 20 to 512MHz
- All Gold MOSFETS for Maximum Reliability

### Maximum Ratings

Parameter	Units
Supply Voltage	28 VDC
Bias Current	2.5 Amp
Drain Current	3.0 Amp
Load Mismatch	∞ :1
All Phase angles, current limited to 3.0A	
Storage Temp	-40° - +105°C
Case Op. Temp.	0° - +60°C