



PM1-525-10

1-525 MHz – 10W

Solid State Broadband High Power Module Amplifier

The PM1-525-10 is a 10W, class “A” Linear amplifier module for the 1 - 525 MHz band. Superior performance offering high gain and power in a small module footprint using advanced broadband matching techniques. Matched for 50 ohms input and output, the PM1-525-10 is a Class A amplifier providing a minimum of 10 watts P1dB making this the natural choice for your broadband applications.



Specifications

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

Parameter	Min.	Typ	Max.	Unit
Frequency	1		525	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 ₃ , 2 tone 10W PEP, f=10KHz		-34	-28	dBc
2 nd Harmonic		-30	-20	dBc
3 rd Harmonic		-30	-20	dBc
Physical Dimensions	2.0"x4.0"x1.0			

Features

- 10 Watts P1dB Class A
- 50 ohms input/output
- Bandwidth 1 – 525 MHz
- Optional Amplifier Disable (+5VDC)
- All Gold MOSFETS for Maximum Reliability

Maximum Ratings

Parameter	Units
Supply Voltage	30 VDC
Bias Current	2.5 Amp
Drain Current	3.0 Amp
Load Mismatch	:1
All Phase angles, current limited to 3.0A, 3sec max	
Storage Temp	-40° - +105°C
Case Op. Temp.	0° - +60°C