



# PM0.1-100-10

## 100kHz - 100 MHz – 10W

### Solid State Broadband

### High Power Amplifier

The PM0.1-100-10 is a 10W, Class “A” linear amplifier module for the 100 kHz - 100 MHz band. It offers superior performance with 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 PM0.1-100-10 provides a minimum of 10 watts P1dB making this the natural choice for your LF/HF broadband applications.



### Specifications

(Vsupply=+28V Vdc, Idq=2.25A, TBase=25°C)

Parameter	Min.	Typ	Max.	Unit
Frequency	0.1		100	MHz
Pout CW P1dB	+40	+42		dBm
Power In		-2		dBm
Gain	40	42		dB
Gain Flatness		+/-1.5		dB
Drain Current		2.25		Amps
Input R/L			-20	dB
Supply Voltage	24	28	30	Volt
IMD <sub>3</sub> , 2 tone 10W PEP, f=10KHz		-40	-28	dBc
2 <sup>nd</sup> Harmonic		-35	-20	dBc
3 <sup>rd</sup> Harmonic		-35	-20	dBc
Physical Dimensions	2.0"x4.0"x1.0			

### Features

- 10 Watts P1dB Class A
- 50 ohms input/output
- Bandwidth 100kHz – 100MHz
- Optional Amplifier Disable (5VDC),  
All Gold MOSFETS for  
Maximum Reliability

### Maximum Ratings

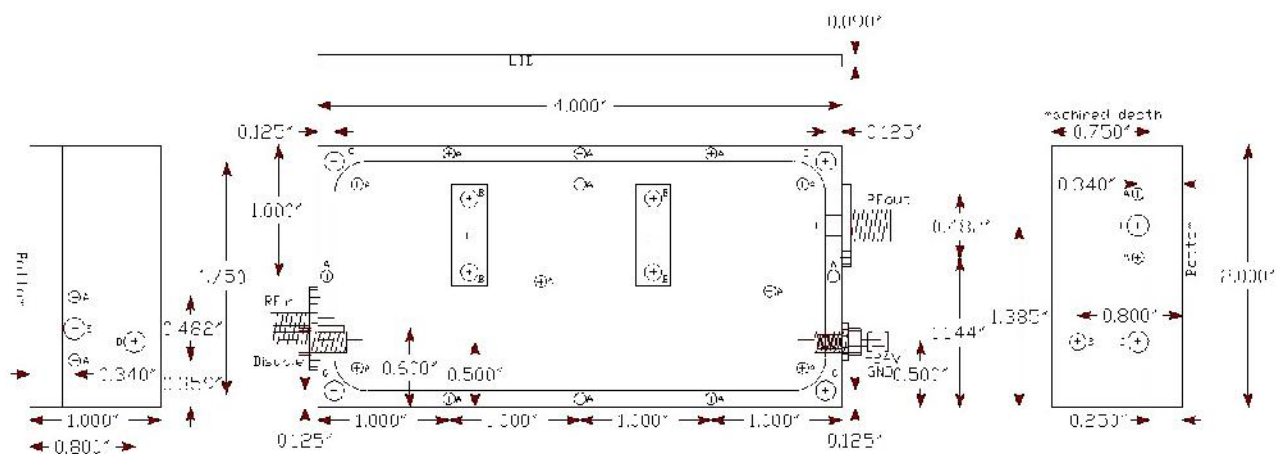
Parameter	Units
Supply Voltage	30 VDC
Bias Current	2.5 Amp
Drain Current	3.0 Amp
Load Mismatch	:1
All Phase angles, current limited to 3.0A, 3 sec max	
Storage Temp	-40° - +105°C
Case Op. Temp.	+60°C

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- A HOLE 2-56 TAP
- B HOLE 4-40 TAP
- C HOLE 6-32 CLEAR
- D HOLE 8-32 TAP
- E HOLES .164" Diameter
- Spl. Depth F-.022"

For optional enable/disable use model # PM0.1-100-10-Opt1