



PM400-1000-200 Solid State Broadband High Power Amplifier Module

The PP400-000-200 is a 200W pallet amplifier for the 400-1000 MHz band. This Class AB pallet amplifier features the latest generation LDMOS power transistors providing CW output power of 200 watts minimum in a very small footprint making this a great choice for your laboratory, military or commercial applications.



Specifications

(Vsupply=+43V Vdc, Idq=1.0A, T_{Base}=25°C)

Parameter	Min	Typ	Max.	Unit
Frequency	400		1000	MHz
Pout P1dB	200			Watts
Efficiency	39	44		%
Gain	17	19		dB
Power In		2.5		W
Drain Current		10.5		Amps
Input Return Loss		-5		dB
2 nd Harmonic		-40	-24	dBc
3 rd Harmonic		-40	-25	dBc
Baseplate Operating Temp.	0		+60	°C
Size	2.3"x6.5"x1.0"			

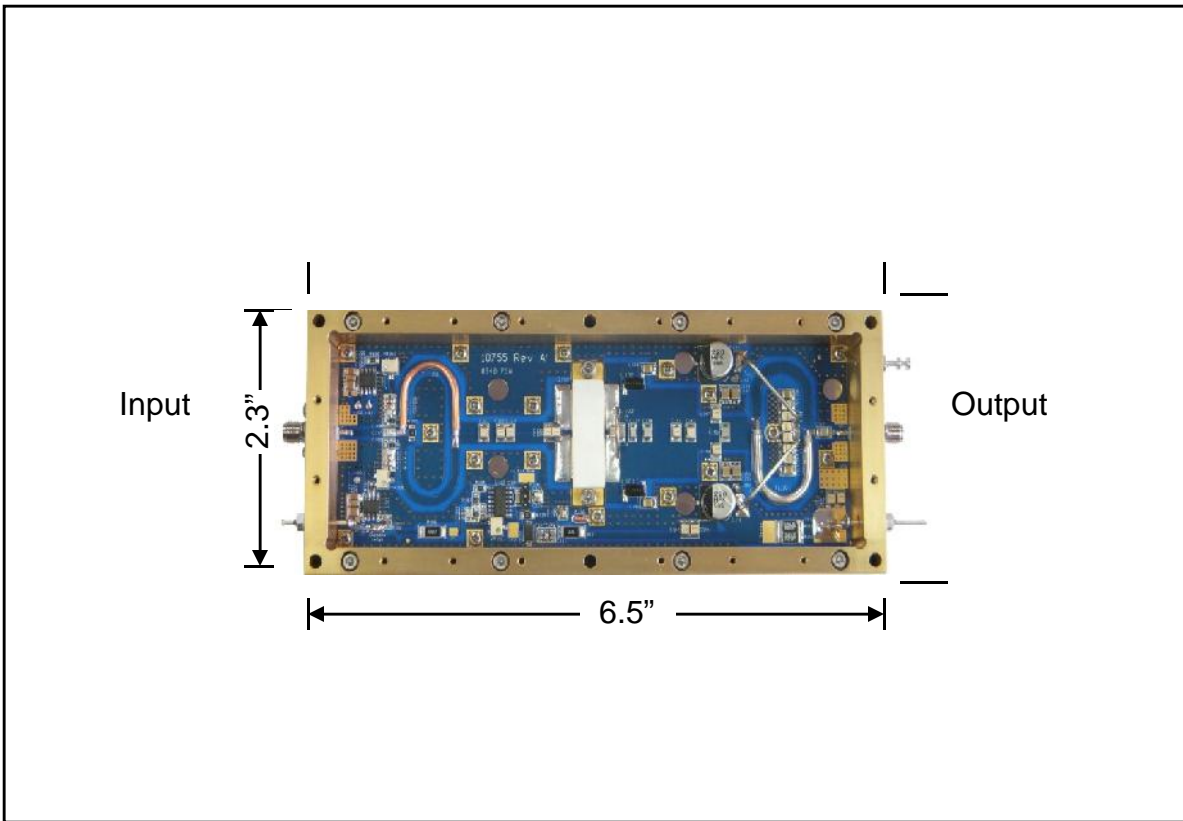
Features

- 200 watts P1dB minimum
- Class A/B
- 19 dB typical gain
- Amplifier disable input
(+5.0 V disable, 0 V enable)
- 50 ohms input/output
- No circuit tuning or RF assembly

Maximum Ratings

Parameter	Value
Input Voltage	+45 VDC
Bias Current	2.0 Amp
Drain Current	14 Amp
Load Mismatch	3:1 All Phase angles current limited to 14 amps.
Baseplate Temp	+60°C
Storage Temp	-40° - +105°C

Reference Circuit



Reference circuit size (not to scale)