

500-2500MHz/200Watt/Module

Model Number: OC-PA05-2.5K200W

The model OC-PA05-2.5K200W is a multi-octave high power amplifier operating between 500 MHz and 2500 MHz and offering a wide dynamic Range with 200 Watts typical saturated power. The employment of advanced high power devices in manufacturing ensures this module exceptional power performance long term reliability and high efficiency. It is ideal multi octave broadband high power RF,S Band linear applications

FEATURES:

- Broadband & High power;
- High Efficiency;
- Great Linearity;
- Small Size & Light Weight;
- Low Distortion

ELECTRICAL SPECIFICATIONS @ +28.0VDC, 25°C, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	500		2500	MHz
RF Output Power	P _{out}		200		Watt
Power Gain	G _p		53		dB
Power Gain Flatness	Δ G _p		±2		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @130W	H		-12		dBc
Spurious Signals	Spur		-55		dBc
Switch On/Off@10-90% Time	TON/OFF		2		μS
In/Output Impedance	Impedance		50		Ω
Operating Voltage	V _{DC}		28		Volt
DC Current @150W	IDD		24		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	200x150x25 [57.87x5.9x0.98]	mm [inch]	Maximum
Weight	2.5[5.5]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	Type-N Female		
DC Interface Connector	Hybrid, D-sub 7 Pin, Male		
Cooling	External Heatsink Required (Not Supplied)		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-20		60	°C	
Non-operating Temperature	-25		65	°C	Storage
Relative Humidity (non-condensing)			95	%	

Absolute Maximum Rating

Input RF drive level without damage	+10 dBm (Max)
Load VSWR @ P _{OUT} =150W	∞ @ all load phase & amplitude for duration of 1 minutes; 3:1 @ all load phase & amplitude continuous
Over Temperature	85°C @ heatsink [restored @ 60°C]

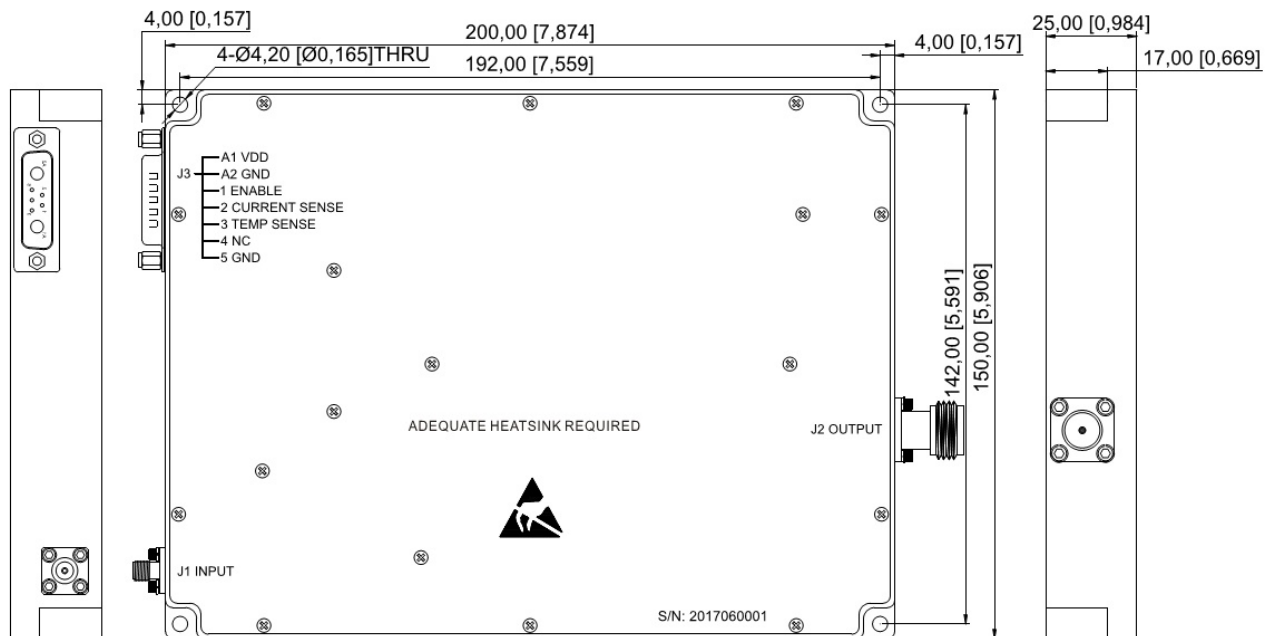
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DC INTERFACE CONNECTOR

Pin #	Description	Specifications
A1	VDD	28V _{DC}
A2	GND	Ground
1	ENABLE	Amplifier Enable: TTL Logic High (3.3V) (Internally Pulled-Low)
2	CURRENT SENSE	Analog voltage relative to I _{DD} @ 100mV per Ampere
3	TEMP SENSE	Analog voltage relative to Module's Temperature @ 10 mV/°C
4	NC	No electrical connection
5	GND	Ground

OUTLINE DRAWING (All dimensions in mm [inch])

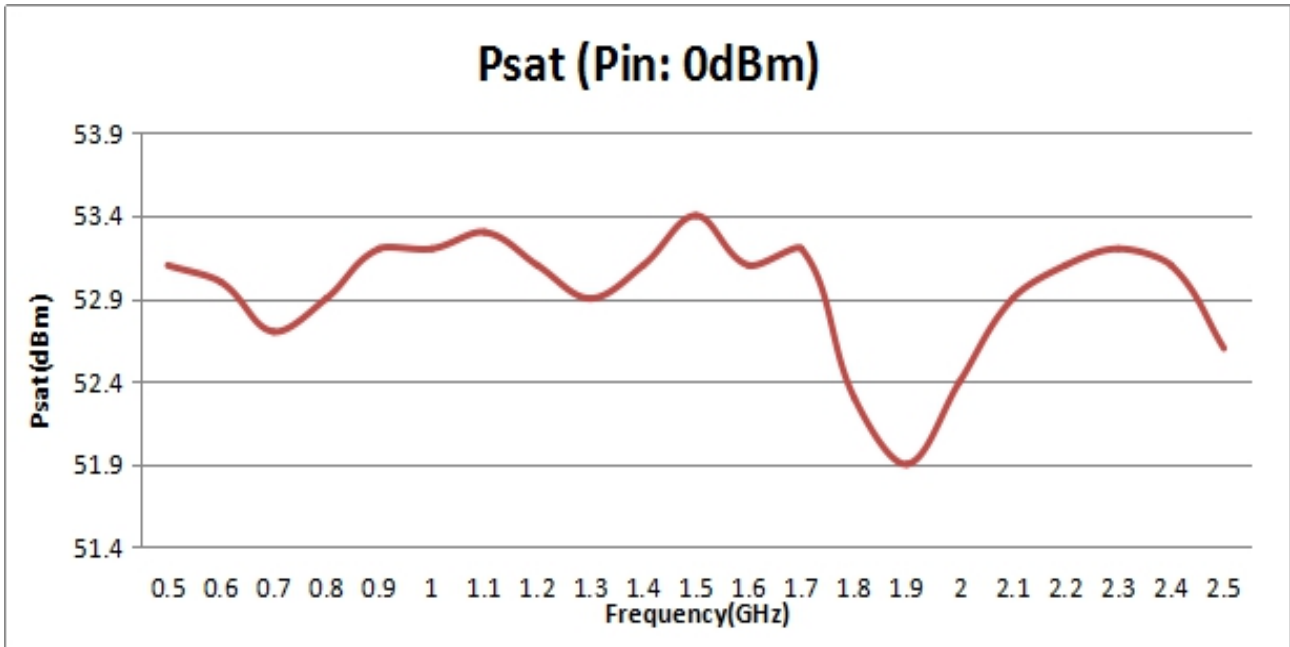




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TYPICAL PERFORMANCE PLOTS (For Reference Only)



Note: Adequate heat sink required.