

## 2700-3500MHz/200Watt/Module

Model Number: OC-PA2.7-3.5K200W

The model OC-PA2.7-3.5K200W is a multi-octave high power amplifier operating between 2700 MHz and 3500 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.

### FEATURES:

- Small Size and light weight;
- Instantaneous ultra-broadband;
- 50 Ohms input and Output matched;
- Built-in control and protection circuits.

### ELECTRICAL SPECIFICATIONS @ +32.0VDC, 25°C, 50Ω

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	2700		3500	MHz
RF Output Power	Psat		200		Watt
Power Gain	Gp		53		dB
Power Gain Flatness	Δ G		±2		dB
Input Return Loss	S <sub>11</sub>			-10	dB
Harmonics @100W	H		-15		dBc
Spurious Signals	Spur		-55		dBc
In/Output Impedance			50		Ω
Operating Voltage	V <sub>DC</sub>	28	32	42	Volt
DC Current @200W	I <sub>DD</sub>		18		Amp
Switching Time @1kHz TTL	T <sub>on/off</sub>		5		uSec

### MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	200x150x30 [7.87x5.9x1.18]	mm [inch]	Maximum
Weight	2.5 [5.5]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	Typ-N, Female		
DC Interface Connector	Hybrid,D-sub 7 Pin, Male		
Cooling	External Heatsink (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	+5 dBm	Maximum
Load VSWR @ P <sub>OUT</sub> =100W	∞ @ all load phase & amplitude for duration of 3 minute; 3:1 @ all load phase & amplitude continuous	
Thermal Overload	85°C @ heatsink [restored @ 60°C]	Minimum

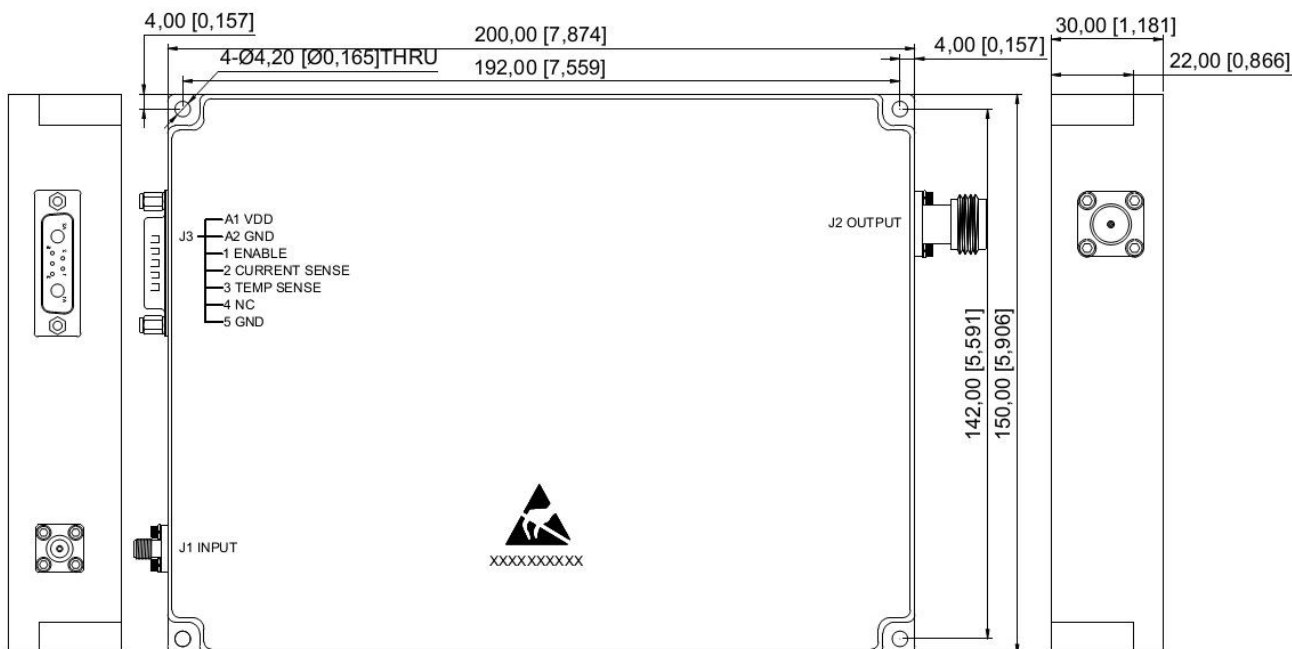
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DC INTERFACE CONNECTOR

Pin #	Description	Specifications
A1	VDD	32V <sub>DC</sub>
A2	GND	Ground
1	ENABLE	Amplifier Disable: TTL Logic High (3.3V) (Internally Pulled-Low)
2	CURRENT SENSE	Analog voltage relative to I <sub>DD</sub> @ 100mV per Ampere
3	TEMP SENSE	Analog voltage relative to Module's Temperature @ 10 mV/°C
4	GND	Ground
5	NC	Not connect

OUTLINE DRAWING(All dimensions in mm [inch])

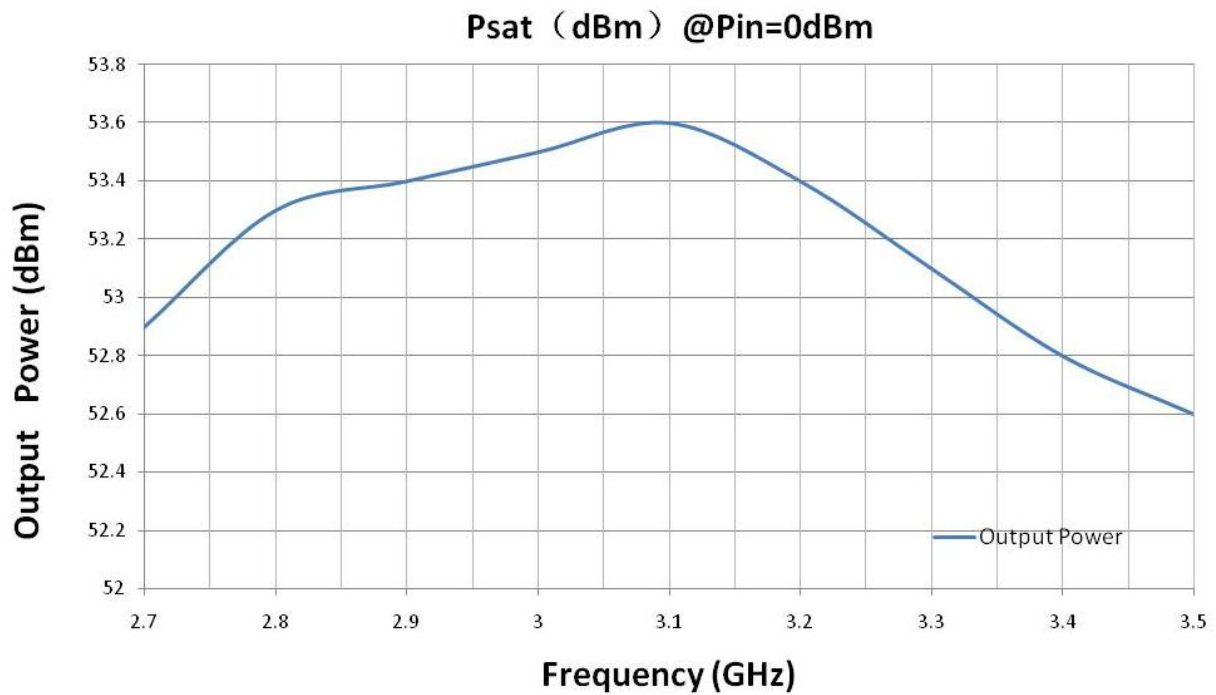




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**TYPICAL PERFORMANCE PLOTS**



**Note:**

- 1. Adequate heatsink required.