

610-960MHz/200Watt/Module

Model Number: OC-PA061-0.96K200W

The OC-PA061-0.96K200W is suitable for broadband high power RF, UHF linear applications. This compact module utilizes advanced high power devices that provide excellent power density, high efficiency, wide dynamic range and low distortions. Exceptional performance, long term reliability and high efficiency are achieved by employing advanced broadband RF matching networks and combining techniques, EMI/RFI filters, machined housings and qualified components. Keylink's ISO9001 Quality Assurance Program assures consistent performance and the highest reliability.

FEATURES:

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

ELECTRICAL SPECIFICATIONS @ +50.0VDC, 25°C, 50Ω

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	610		960	MHz
RF Output Power	Pout	200			Watt
Power Gain	G	45			dB
Power Gain Flatness	Δ G		±2		dB
Input Return Loss	S11			-15	dB
Harmonics @200W	H		-20		dBc
Spurious Signals	Spur		-70		dBc
In/Output Impedance			50		Ω
Operating Voltage	VDC	48	50	52	Volt
DC Current @200W	IDD		12		Amp
Switching Time @1kHz TTL	Ton/off		2		μS

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	200x150x30 [7.87x5.9x1.18]	mm [inch]	Maximum
Weight	3 [6.6]	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 (Not Supplied)		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

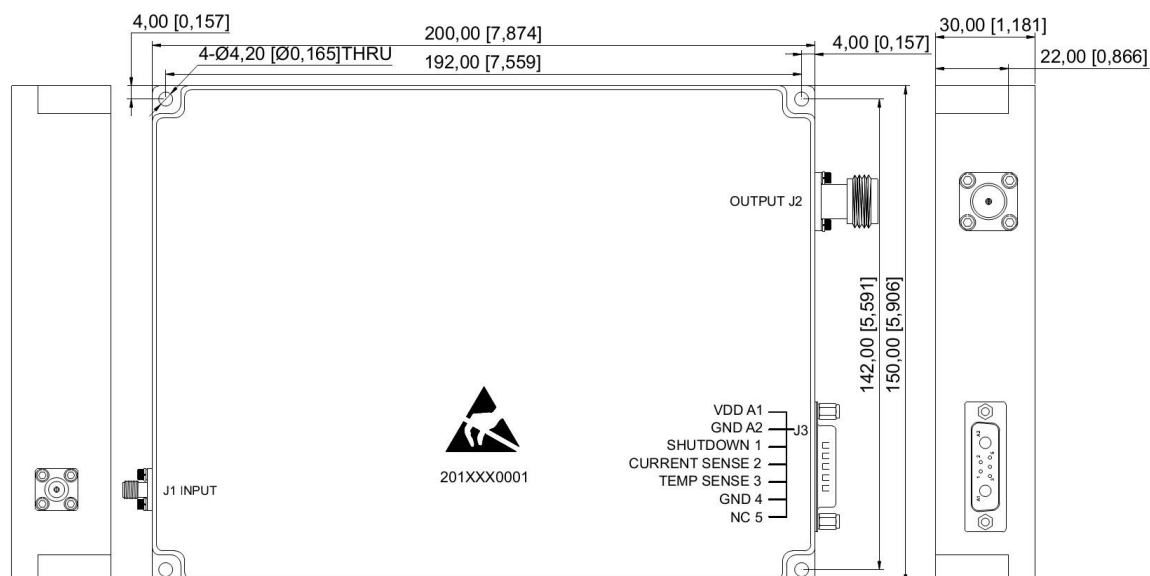
Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-20		40	°C	
Non-operating Temperature	-25		60	°C	Storage
Relative Humidity (non-condensing)			95	%	

Absolute Maximum Rating

Input RF drive level without damage	+30dBm	Maximum
Load VSWR @ POUT =100W	∞ @ all load phase & amplitude for duration of 3 minute; 3:1 @ all load phase & amplitude continuous	
Thermal Overload	85°C °C shutdown	Maximum

610-960MHz/200Watt/Module**Model Number: OC-PA061-0.96K200W****DC INTERFACE CONNECTOR**

Pin #	Description	Specifications
A1	VDD	50V _{DC}
A2	GND	Ground
1	SHUTDOWN	Amplifier Disable: TTL Logic High (3.3V) (Internally Pulled-Low)
2	CURRENT SENSE	Analog voltage relative to Module's Temperature @ 10 mV/°C
3	TEMP SENSE	Analog voltage relative to I _{DD} @ 100mV per Ampere
4	FORWARD MONITOR	Analog voltage relative to forward power level
5	REVERSE MONITOR	Analog voltage relative to reflected power level

OUTLINE DRAWING (All dimensions in mm [inch])

**610-960MHz/200Watt/Module***Model Number: OC-PA061-0.96K200W***TYPICAL PERFORMANCE PLOTS**