

2200-2500MHz/200Watt/Module

Model Number: KN2350M53A

The model KN2400M53A is a narrowband high power amplifier operating between 2200 MHz and 2500 MHz and offering a wide dynamic Range with 200 Watts typical saturated power. The employment of LDMOS and chip-and-wire technology in manufacturing ensures this module state-of-the-art power performance with excellent power-to-volume ratio. It is ideal for jamming, EMC, test and measurement applications.

FEATURES:

- Small Size and Light Weight
- Instantaneous Ultra-Broadband
- 50 Ohms Input and Output Matched
- Built-In Control and Protection Circuits

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

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	2200		2500	MHz
RF Output Power @Pin=25dBm	Psat		200		Watt
Power Gain	Gp		28		dB
Power Gain Flatness	ΔGp		±1.5		dB
Input Return Loss	S11			-10	dB
Harmonics @150W	H		-30		dBc
Spurious Signals	Spur		-60		dBc
In/Output Impedance	Impedance		50		Ω
Operating Voltage	VDC	24	28	32	Volt
DC Current @200W	IDD		24		Amp
Switching Time @1kHz TTL	Ton/off		2	5	uSec

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	170x130x30 [6.69x5.12x1.18]	mm [inch]	Maximum
Weight	2.0 [4.4]	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	Minimu	Typical	Maximum	Units	Notes
Operating Temperature	-40		60	°C	
Non-operating Temperature	-45		65	°C	Storage
Relative Humidity (non-condensing)	5		95	%	

Absolute Maximum Rating

Input RF drive level without damage	+30 dBm (Max)
Load VSWR @ POUT=100W	∞ @ all load phase & amplitude for duration of 3 minutes; 3:1 @ all load phase & amplitude continuous
Thermal Overload	85°C @ heatsink [restored @ 60°C]

Focus on Your Application

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Specifications subject to change without notice

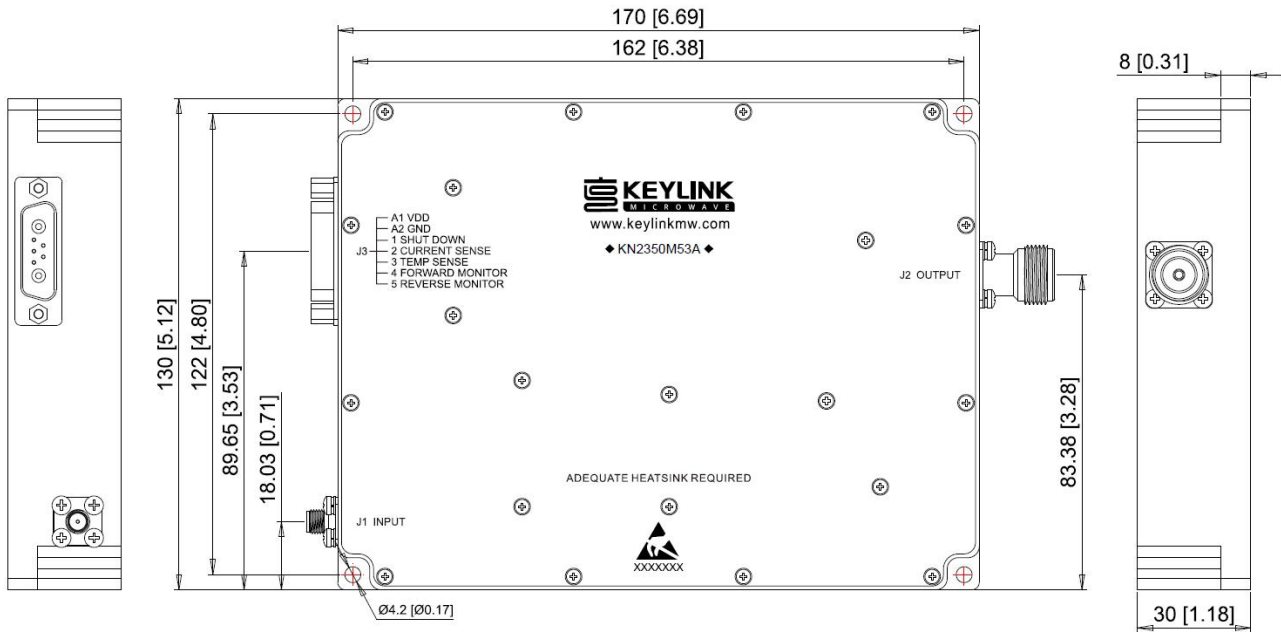
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DC INTERFACE CONNECTOR

Pin #	Description	Specifications
A1	VDD	28VDC
A2	GND	Ground
1	SHUTDOWN	Amplifier Disable: TTL Logic High (3.3V) (Internally Pulled-Low)
2	CURRENT SENSE	Analog voltage relative to IDD @ 100mV per Ampere
3	TEMP SENSE	Analog voltage relative to Module's Temperature @ 10 mV/°C
4	FORWARD MONITOR	Forward detected power
5	REVERSE MONITOR	Reverse detected power

OUTLINE DRAWING (All dimensions in mm [inch])



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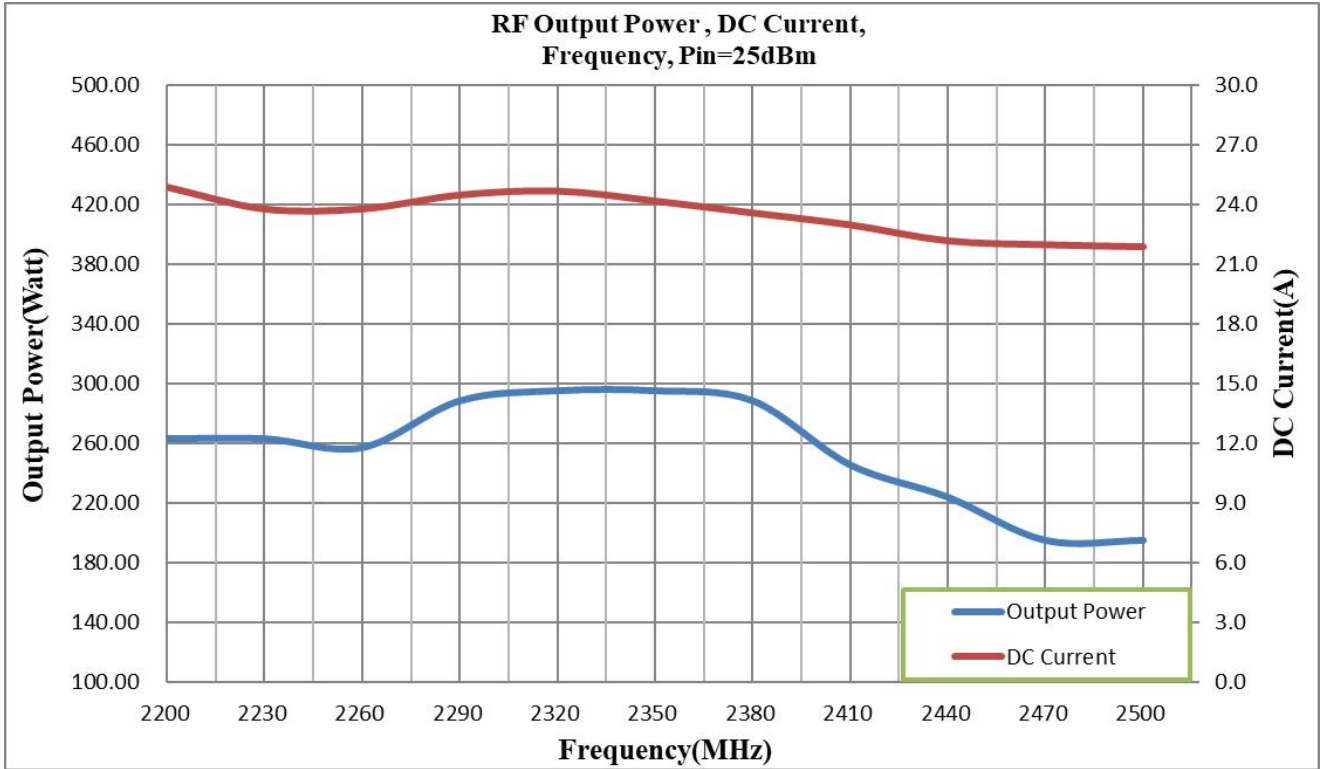
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TYPICAL PERFORMANCE PLOTS (For reference only)



Note: Adequate heatsink required.

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