

Broadband High Power Amplifier

Product Name : RCA60180H46A

Doc. Name : Preliminary Spec.

<p style="text-align: center;">Preliminary Specification for RCA60180H46A</p>

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Created	Printed	Document Number	Revision	Manufacturer
2017/1/2	2017/8/7			RFcore Co.,Ltd
File : RCA60180H46A Short Spec.docx				

The Specifications is subject to change before finalization

Customer Service: Tel. 82-31-708-7575

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<http://www.rfcore.com>

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, Ta = 20 °C	
Parameter	Specification	Remark	
Frequency Range	6 ~ 18 GHz		
Saturated Output Power	40W Typical	CW	
Small Signal Gain	29dB Typical	Input = -20dBm	
Small Signal Gain Flatness	± 3dB	Input = -20dBm	
Input Power for no damage	6 ~ 9GHz	20dBm	
	~ 13.5GHz	25dBm	19dBm@12.5GHz
	~ 18GHz	29dBm	
Input VSWR	Less than 1.3 : 1		
AC Input Voltage	220V, 50/60Hz		
AC Power Consumption	800W max. @16GHz	Include power consumption of radiating fans	

I/O Interface		Description	Remark
D-SUB 9pin Male	2.	RS232 Receive Data	remote control
	3.	RS232 Transmit Data	
	5.	Ground	
	1, 4, 6, 7, 8, 9	: N.C	
LCD		DC current monitor	Each internal PA MMIC
		Temperature monitor	Each internal PA MMIC
Keypad		Frequency selection	
Function Key		Enable/Disable	Blue : Enable
AC on/off Switch		AC on/off	Up : On

ENVIRONMENTAL SPECIFICATIONS		Specification	Remark
Parameter			
Operating Temperature		-20 ~ +50 °C	

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MECHANICAL SPECIFICATIONS		
Parameter	Specification	Remark
Dimension	340 x 308 x 300 mm	
Weight	20kg	
RF Input Connector	SMA Female	
RF Output Connector	SMA Female	
I/O Interface Connector	D-SUB Male	
Input Interface Key	Keypad	
	Function Key	
	AC on/off Switch	
Output Interface Display	LCD	
AC Input Connector	IEC 60320 C14	
Cooling	Forced Air	

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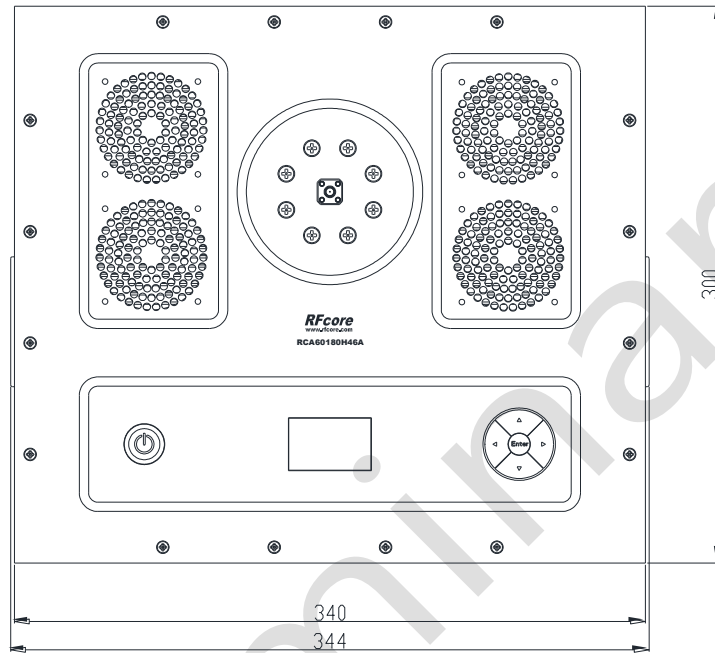
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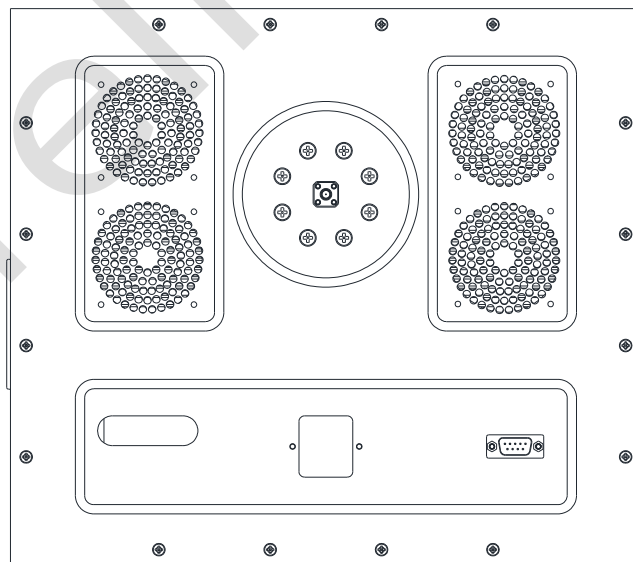
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MECHANICAL DRAWING



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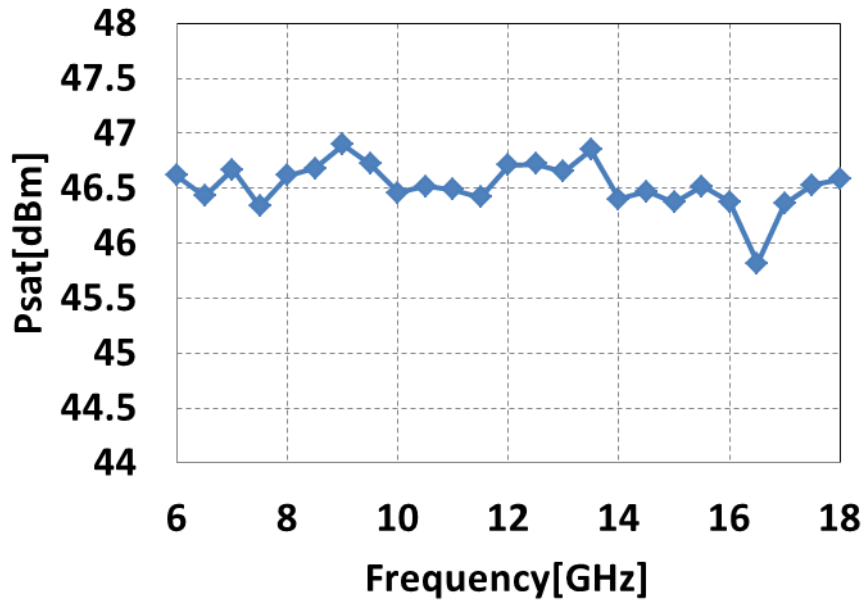
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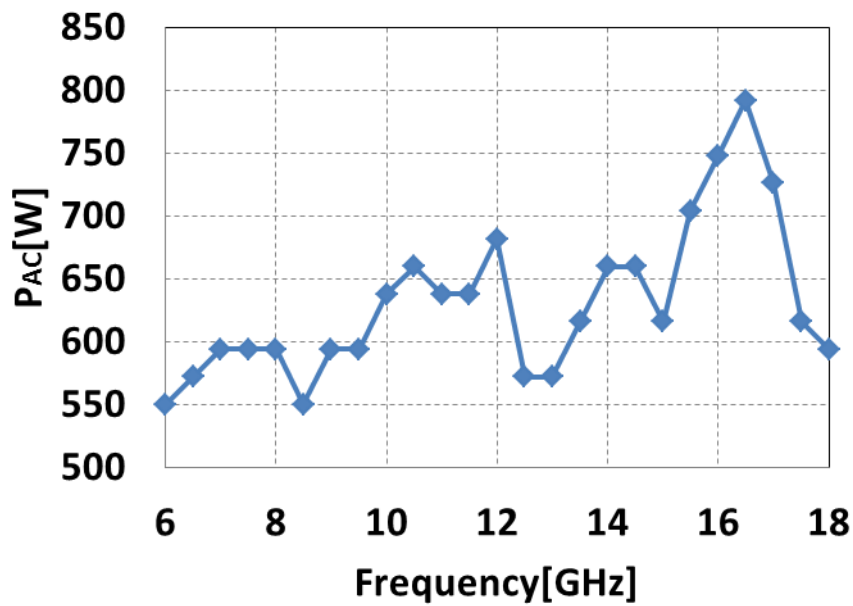
Typical Performance Curve

Output Power



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Power Consumption at Psat



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