

Specification for *RFcore* 100~500 MHz 150 W amplifier

Model Name : RCA0105H52A

Parameter	Specification	Remark
Frequency Range	100 to 500 MHz	
Power Output Psat	200W TYP, 150W Min in Band	@Pin=5dBm, CW
Power Output <b>P1dB</b>	>49dBm	CW
Nominal Gain	53 dB $\pm$ 1dB	@ 300MHz
Gain Variation Over temperature	$\pm$ 1dB	Over Temp. 300MHz
Small signal flatness	$\pm$ 2.5 dB pp	@Pin=-15dBm
Large signal flatness	$\pm$ 1.5 dB pp	@Pin= 5dBm
Maximum Output load condition	5:1	Survival condition & Protection
Operating impedance	50 $\Omega$	
In VSWR	< 1.5:1	
DC Input	27 $\pm$ 1.0 V	
DC Current	20A typical, 25A max	@150W, full Band. Low Band 17A typical High Band 22A typical
In/Out Connector	Input : SMA Female Output: N Female	
SIZE	<b>266 x 177x 30 mm</b>	Without connector Extension
Operation Temperature	-10 $^{\circ}$ C ~ +70 $^{\circ}$ C	@ Base Plate
Storage Temperature	-40 $^{\circ}$ C ~ +100 $^{\circ}$ C	
DC Connector	3W3P	
I/O	RF OUT	N _ Female
	RF IN	SMA _ Female
	1. Over Temp Alarm (High 5V@ +85 $^{\circ}$ C $\pm$ 10%)	D-Sub 9Pin
	2. Reflect Power monitor output	
	4. Forward Power monitor output	
	5. Enable , TTL Low	
	6,7. GND	
3,8,9. NC		

# Preliminary Specification for *RFcore* 100~500 MHz 150 W amplifier

## Mechanical Drawing

