

## Preliminary Specification for *RFcore* 100~500 MHz 250 W amplifier

Model Name : RCA0105H54B

Parameter	Specification	Remark
Frequency Range	100 to 500 MHz	
Power Output Psat	Typical 250W, MIN 200W	@Pin=+5dBm, CW
Power Output P1dB	> 50dBm	CW
Nominal Gain	52 ± 1 dB	Over Temp.
@ Small Signal Flatness	± 2.5 dB	Pin = -15dBm
@ Large Signal Flatness	± 2.0 dB	Pin = +5dBm
Maximum Output load condition	5 : 1	Survival condition
In VSWR	< 1.5 :1	
DC Input	28 ± 0.5 VDC	3W3P
DC Current	19 A Typical, 25A MAX	@ Pout = 200W
In/Out Connector	In : SMA Female Out: N-TYPE Female	
SIZE	340x170x50mm	
Operation Temperature	-10℃ ~ +70℃	@ Base Plate
Storage Temperature	-40℃ ~ +100℃	
I/O	Enable : Active TTL Low input	D-sub 1pin
	Forward power monitor output	D-sub 2pin
	Reflect power monitor output	D-sub 4pin
	Active TTL Low output Over Temp Alarm (High 5V +85℃ ± 10%)	D-sub 6pin
	Active TTL Low output Over Current Alarm (High 5V @ 25A ± 1A)	D-sub 7pin
	GND	D-sub 8,9pin
	Not connect	D-sub 3,5pin

※ RCA0105H454B and RCA0105H54A are the same except the shape of mount hole and the pin map of DC connector (3W3P).

# Preliminary Mechanical Dimensions

Model Name : RCA0105H54B

(WXDXH) : 340 x 170 x 50 mm

Mount Hole spec is 3.5 mm diameter.

