

# Specification of 2.5~6.0GHz 30W amplifier

Model Name : RCA2560H45A

Parameter	Specification	Remark
Frequency Range	2.5 to 6.0 GHz ( Bandwidth : 3.5 GHz)	
Power Output Psat	40 W typ., 23.5 W min (2.5~3.0 GHz) 40 W typ., 28.5 W min (3.0~6.0 GHz)	@ 25 °C Case Temperature, CW operation
Small Signal Nominal Gain	57 dB ± 2 dB	@ 25 °C Case Temperature, Pin = -30 dBm
Large signal Nominal Gain	47 dB typical	@25°C case Temperature, Pin = 0 dBm
Large signal Flatness	Peak to peak 6 dB	Pin = 0 dBm
Output VSWR	Less than 2 : 1	
Maximum Input Power	+5 dBm	
Maximum Output load condition	survive with open & short at output connector	Built-in Isolator
Input VSWR	Less than 2 :1	
DC Input	28 V	
DC Current Consumption	5.4 A Typical, 7.5 A MAX	@ Pout = 23.5 W (2.5~3.0 GHz) @ Pout = 28.5 W (3.0~6.0 GHz)
SIZE	136X110X25 mm <sup>3</sup>	
Weight	800 g MAX	
Operating Case Temperature	-20 °C ~ + 70 °C	
Storage Temperature	-40 °C ~ + 85 °C	
I/O and DC Pin description (D-sub 9 pin Male)	1. Enable (Active low)	
	2. Forward Power Detector	
	3. NC	
	4 . Reverse Power Detector	
	5. Temperature Monitor, Monitor Voltage is $V = 0.01V * T (^{\circ}C) + 0.5V$	
	6,7 : Vcc (28V)	
	8,9 : GND	
RF I/O	1. RF IN SMA Female	
	2. RF OUT SMA Female	

※ Enable Pin (1) is normally pulled up.

# Mechanical Drawing

(D x W x H) : 136 x 110 x 25 mm<sup>3</sup>

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