

5.7 ~ 5.9 GHz 12 W Power Amplifier

Model Name : RCA5759H41B

Parameter	Specification	Remark
Frequency Range	5.7 to 5.9 GHz (Bandwidth : 0.2 GHz)	
CW Power Output Psat	41dBm typ., 37dBm min	@ all Temp. range
Small Signal Average Gain	47 dB \pm 2 dB	@ -15dBm input, 30 °C case temp.
Large Signal Average Gain	43 dB \pm 2 dB	@ -2dBm input, 30 °C case temp.
Large Signal Gain Flatness	Peak to Peak 2 dB	@ -2dBm input, 30 °C case temp.
Maximum Output load condition	survive with open & short at output connector	Isolator included
Input VSWR	Less than 1.5 :1	
Maximum Input Power	+7 dBm	
DC Input	28V	
DC Current	1.6 A Typical @ 40 dBm Idq : 0.7 A MAX	
SIZE	145 X 75 X 19 mm ³	
Weight	400 g Typical	
Operating case Temperature	-20 °C ~ + 60 °C	
Storage Temperature	-40 °C ~ +90 °C	
I/O and DC Pin description (D-sub 9 pin Male)	1. Enable (Active low, 0~0.8V : low, 4~5V : high)	
	2. Forward Power Detector	linear in dB
	3. NC	
	4 . Reverse Power Detector	linear in dB
	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) : 145 x 75 x 19 mm³

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