

RFcore Co.,Ltd

2.5~6.0 GHz 15 W
Power Amplifier

RCA2560H43A

- Size : 123X83X25 mm³

Preliminary Specifications

Specification of 2.5~6.0GHz 15W amplifier

Model Name : RCA2560H43A

Parameter	Specification	Remark
Frequency Range	2.5 to 6.0 GHz (Bandwidth : 3.5 GHz)	
Power Output Psat	20 W typ., 10 W min (2.5~6.0 GHz)	@ 25 °C Case Temperature, CW operation
Small Signal Nominal Gain	59 dB ± 2 dB	@ 25 °C ambient (T.B.D), Pin=-30dBm
Large signal Gain	47 dB typical	@25 °C case Temperature, Pin = -3dBm
Large signal Gain Flatness	Peak to peak 5 dB	Pin = -3dBm
Output VSWR	Less than 2 : 1	
Maximum Input Power	+5 dBm	
Maximum Output load condition	survive with open & short at output connector	Isolator included
Input VSWR	Less than 2 :1	
DC Input	28 V	
DC Current Consumption	2.3 A Typical, 3.0A MAX	@ Pout = 10W
SIZE	123X83X25 mm ³	
Weight	600 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 $V = 0.01V * T (°C) + 0.5V$	Temperature sensor is located around the center of base plate.
	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) : 123 x 83 x 25 mm³

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