

Preliminary specification of 2.0~4.0GHz 20W amplifier

Model Name : RCA2040H44A

Parameter	Specification	Remark
Frequency Range	2.0 to 4.0 GHz (Bandwidth : 2GHz)	
Power Output Psat	25 W typ., 20 W min	@ 25 °C ambient, CW operation
Nominal Gain	46 dB ± 2 dB	@ 25 °C ambient (T.B.D)
Large signal Flatness	Peak to peak 3 dB	Pin = 5dBm
Output VSWR	Less than 2 : 1	
Maximum Input Power	+7 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	3.2 A Typical, Max 3.6A	@ Pout = 20W
SIZE	180X100X28 mm	
Weight	1.1 kg	
Operating Temperature	-20 °C ~ + 60 °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 6,7 : Vcc 8,9 : GND	
RF I/O	1. RF IN SMA Female	
	2. RF OUT SMA Female	

※ Enable Pin (1) is normally pulled up.

Preliminary Mechanical Drawing

(D x W x H) : 180 x 100 x 28 mm

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6- ϕ 3.5 Hole Thru.

