

Specification of 865-865.5MHz 2W Amplifier

Model Name : RCA865H2FN

Parameters	Specification
Frequency Range	865.0 ~ 865.5 MHz
Operating Bandwidth	0.5 MHz
Output Power	2 W
Gain	47dB +/- 0.5 dB (ALC 10 ~15dB 구현) ALC동작 POWER 34dBm +/- 0.5 dB
Gain Flatness	+/- 0.5 dB(max)
Gain Variation	+/- 1dB(max)
IMD	Operating Temperature < -64dB @ 23dBm/tone (10Tones, Δfreq = 25KHz)
Tetra Spurious	60dB @ 20KHz
Input, Output VSWR	1.4 : 1
Power Supply Voltage	21 ~ 30V
Power Supply Current	Max 2.7A / 27V±1V
Operating Temperature / Humidity	-20 ~ 60 °C / 20 ~ 80 %
Storage Temperature / Humidity	-30 ~ 70 °C / 5 ~ 95 %
Dimension	150mm x 120mm x 25mm
RF Connectors	Input : SMA/F Output : SMA/F
Power Connector	3W3P D-SUB/M A1:27V, A2:GND, A3:NC
Control & Status Connector	D-SUB 9Pin/Male

Type	Description		Remark
DSUB 9Pin Male	1 GND	-	-
	2 Over Power Alarm	Alarm High	@37dBm ± 1dB, Shutdown
	3 VSWR Alarm	Alarm High	@ 20dBm Over, Shutdown
	4 Reserved	-	-
	5 Over Temp. Alarm	Alarm High	@85°C ±5, Shutdown Restart @65°C ±5
	6 Enable / Disable	Active Low	Disable High
	7 Reserved	-	-
	8 FWD Power Monitor	4V±0.2@32dBm	100mV / dB ± 5%
	9 Reserved	-	-

Mechanical Drawing

(D x W x H) : 150 x 120 x 25 mm

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