

Specification of 1930~1995MHz 0.5W Amplifier

Model Name : RCA1960H5FL

Parameter	Specification
Frequency Range	1930 ~ 1995 MHz
CDMA Average Power (12FA)	26 dBm / 12FA (20MHz)
Input Level	-14 dBm / 12FA (20MHz)
Gain	40 dB \pm 0.5 dB
Ripple	1.5 dB _{p-p} (@ BW = 65MHz) , 1.0 dB _{p-p} (@ A Band = 15MHz)
Spurious Emission A+D / C+G Band @ CDMA 12FA	\pm 885kHz @ RBW=30kHz, VBW=100Hz -40 dBc
	\pm 1.98MHz @ RBW=30kHz, VBW=100Hz -45 dBc
Gain variation over temperature	\pm 1 dB (Reference : Ambient Temp. 25 $^{\circ}$ C)
Noise Figure	5dB max.
Return loss (Input/Output)	1.5 : 1 [Max.]
DC Operating voltages	+27 [V]
DC current	1.0[A] Max @ 26dBm
Forward Power Detector	Range : 0dBm ~ 26dBm
Enable Disable Signal Input	0 Volt : On, 5 Volt or Open : Off
Operating temperature	-20 $^{\circ}$ C to +70 $^{\circ}$ C (Ambient Temp.)
Operating Humidity	5% ~ 95%
Size (mm)	125*90*22 mm
RF I/O Connector	SMA Female

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15Pin D-sub Description

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Pin	Parameter	Description	Specification
1	+27V	+27V	
2			
3			
4			
5			
6	GND	GND	
7			
8			
9			
10			
11	HPA PWR MON	Forward Power Monitor {4.0V±0.08V@26dBm(0.1V/dBm)}	- A,E,G band 측정 - Band간 측정 전압차가 0.1V(1dB)이내
12	Over PWR ALM	Over Power Alarm(@29dBm~29.5dBm)	High Alarm
13	HPA Enable	En/Disable Signal Input (Active Low)	Low Enable
14	VSWR ALM	Alarm : 6dB이하 @ Reflected power > 14dBm ±1dB (필터 출력 기준)	High Alarm
15	Over Temp. ALM	Over Temperature Alarm (@85±5℃)	High Alarm