

Broadband High Power Amplifier

Product Name : RCA2427H33A

Doc. Name : Preliminary Short Spec.

Preliminary Short Specification
for
RCA2427H33A

RoHs
compliant

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Created	Printed	Document Number	Revision	Manufacturer
2016/3/4	2017/2/6		F	RFcore co.,Ltd
File : RCA2427H33A Short Spec_revF.docx				

The Specifications is subject to change before finalization

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Broadband High Power Amplifier

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc = 35 °c
Parameter	Specification	Remark
Frequency Range	2400 ~ 2700 MHz	
Saturated Output Power	2W(33dBm) min.	CW
Gain @ Center frequency	30 ± 1.0 dB	Input level = -15dBm
Gain Flatness	Peak to Peak 3.0 dB	Input level = -15dBm
Input VSWR	Less than 2.0 : 1	
Maximum handling load VSWR	10 : 1 for 20ms	Over Freq. band & Over Temp.
Input Power for rated output power	10 dBm	
Maximum Input Power for no damage	13 dBm	
Enable/Disable Switching Time	Less than 10 uS	
DC Input Voltage	28 ± 1.0Vdc	
DC Current Consumption(+28V)	300 mA max.	
DC Current Consumption(+5V)	260 mA max.	
RF Input Signal Format	CW	
I/O Map(Micro D-SUB 9Pin)	1. GND	
	2. DC +5V	
	3. DC +28V	
	4. Enable	Pulled – up with 10Kohm Open or High(DC +5V) w/o EMI filter(applies capacitors 10pF and 33pF instead of EMI filter)
	5. Reflected Power Monitor	Logarithmic detector, slope : 53mV/dB
	6. Forward Power Monitor	Logarithmic detector, slope : 53mV/dB
	7. N.C	
	8. N.C	
	9. N.C	

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ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-20 ~ 75 °C	@baseplate
Storage Temperature	-40 ~ 85 °C	

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