

Broadband High Power Amplifier

Product Name : RCA5060H43D0, Code Name :

Doc. Name : Preliminary Short Spec.

<p style="text-align: center;">Preliminary Short Specification for RCA5060H43D0</p>

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2018/8/14	2018/8/14		A	RFcore co.,Ltd
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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	5000 ~ 6000 MHz	
Saturated Output Power	20 W min.	@ CW, 50 ohms load
Large Signal Gain	42 dB min.	Input Level = 0 dBm
Gain Flatness	Peak to Peak 4 dB	Input Level = - 15 dBm
Maximum Input Power for no damage	15 dBm	@ CW, 50 ohms load
Input VSWR	Less than 2 : 1	
Output VSWR	Less than 2 : 1	Built in Isolator
Maximum load VSWR for amplifier survival	Infinite, all phase	@ Pout = 20 W CW, Tc = 70°C
DC Input Voltage	28 ± 1 Vdc	
Current Consumption	6.5 A max. 5.0 A Typ.	@ Pout = 20 W CW
RF Input Signal Format	CW	

Interface Pin Description		
Connector	Description	Specification
I/O Interface(D-Sub 9Pin Male)	1. Enable(Active Low)	(Enable = 0V, Disable = 5V) pull-up @ 5V with 10k ohm
	2. Forward Power Monitor	Logarithmic Detector(≈0.05V/dB)
	3. N.C	
	4. Reflected Power Monitor	Logarithmic Detector(≈0.05V/dB)
	5. Temperature Monitor	VT= 10(mV) * Tc(°C) + 500(mV), Tc = Case Temperature± 5°C
	6. Vcc	
	7. Vcc	
	8. GND	
	9. GND	

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ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Remark
Operating Case Temperature	-20 ~ +70 °C	At a hottest point of the mechanical case of amplifier module
Storage Temperature	-40 ~ +85 °C	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension (Amplifier only)	145 * 95 * 25 mm	w/o connectors
Weight (Amplifier only)	Less than 650 g	
RF Input Connector	SMA Female	
RF Output Connector	SMA Female	
I/O Interface Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

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