

Broadband High Power Amplifier

Product Name : RCA05-25H52A

Doc. Name : General Spec.

<p style="text-align: center;">General Specification for RCA05-25H52A</p>

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2014/7/14	2017/1/12		D	RFcore co.,Ltd
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The Specifications is subject to change before finalization

Customer Service: Tel. 82-31-708-7575

Email: sales@rfcore.com

<http://www.rfcore.com>

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ELECTRICAL SPECIFICATIONS		
@ 28 Vdc, 50 Ohms Load, Tc = 35 °C		
Parameter	Specification	Remark
Frequency Range	500 ~ 2500 MHz	
Saturated Output Power	150Watts typ. 135 Watts min.	
Small Signal Gain	50 dB min	Input Power = - 15 dBm
Gain Flatness	Peak to Peak 4.5 dB	Input Power = 0 dBm
Input Power for rated output power	0 ± 4 dBm	
Maximum Input Power for no damage	10 dBm max	
Input VSWR	2:1 max	
DC Input Voltage	28 ± 1 V	
Current Consumption	24 A max. 19A typ.	@ Pout = 135 W
RF Input Signal Format	CW	
I/O Map(D-Sub 9Pin Male)	<ol style="list-style-type: none"> 1. Enable(Active Low) 2. Reserved 3. Fast Back-off 4. Reserved 5. Temperature Monitor 6. Do not connect 7. Do not connect 8. Do not connect 9. Do not connect 	Enable : GND or TTL Low Disable : OPEN or TTL High Pulled up @ 5 V with 10 kohm 5V : Back-off by 20~30dB), 0V or GND : Maximum Gain $VT = 0.02[V/degC] * Tc + 1[V]$ Tc is Case Temperature in degC ± 5°C

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ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-30 ~ 75 °C	
Storage Temperature	-40 ~ 85 °C	

MECHANICAL SPECIFICATIONS		
Parameter	Specification	Remark
Dimension	250 * 280 * 30 mm	
Input Connector	SMA Type Female	
Output Connector	N Type Female	
DC Connector	3W3(A1: VCC, A2 : GND, A3 : N.C)	
Control Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

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