

# Broadband High Power Amplifier

Product Name : RCA2560H43B

Doc. Name : Preliminary Short Spec.

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<p style="text-align: center;"><b>Preliminary Short Specification</b> for <b>RCA2560H43B</b></p>
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Created	Printed	Document Number	Revision	Manufacturer
2018/4/23	2018/4/23		A	
File : RCA2560H43B Short Spec.docx				

*The Specifications is subject to change before finalization*

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc = 35°C
Parameter	Specification	Remark
Frequency Range	2500 ~ 6000 MHz	
Power Output Psat	15W min. 25W typ. (2.5 ~ 3.0 GHz) 18W min. 25W typ. (3.0 ~ 6.0 GHz)	@ 25°C Case Temperature CW operation
Small Signal Nominal Gain	59dB ± 2dB	Pin = -30dBm
Large Signal Nominal Gain	46dB ± 2dB	@ 25°C Case Temperature, Pin = -3dBm
Large Signal Gain Flatness	Peak to Peak 5dB	Pin = -3dBm
On/off switching time	1 us typ.	
Maximum Input Power for no damage	5dBm	
Input VSWR	Less than 2 : 1	
DC Current Consumption	2.5A typ. , 3.4A max.	@ Pout = 15W
DC Input Voltage	28 Vdc	
RF Input Signal Format	CW	
Pin Description	1. Enable (Active Low) 2. Forward Power Detector 3. N.C 4. Reverse Power Detector 5. Temperature Monitor 6. Vcc 7. Vcc 8. GND 9. GND	VT = 0.01V * Temp(°C)+0.5V

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ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-30 ~ 70 °C	@ Baseplate
Storage Temperature	-40 ~ 85 °C	

MECHANICAL SPECIFICATIONS		
Parameter	Specification	Remark
Dimension	123 x 83 x 25 mm <sup>3</sup>	
Weight	Less than 600g	
RF Input Connector	SMA – Female	
RF Output Connector	SMA – Female	
DC / Interface Connector	D – Sub 9 Pin Male	
Cooling	Adequate Heat-sink required	

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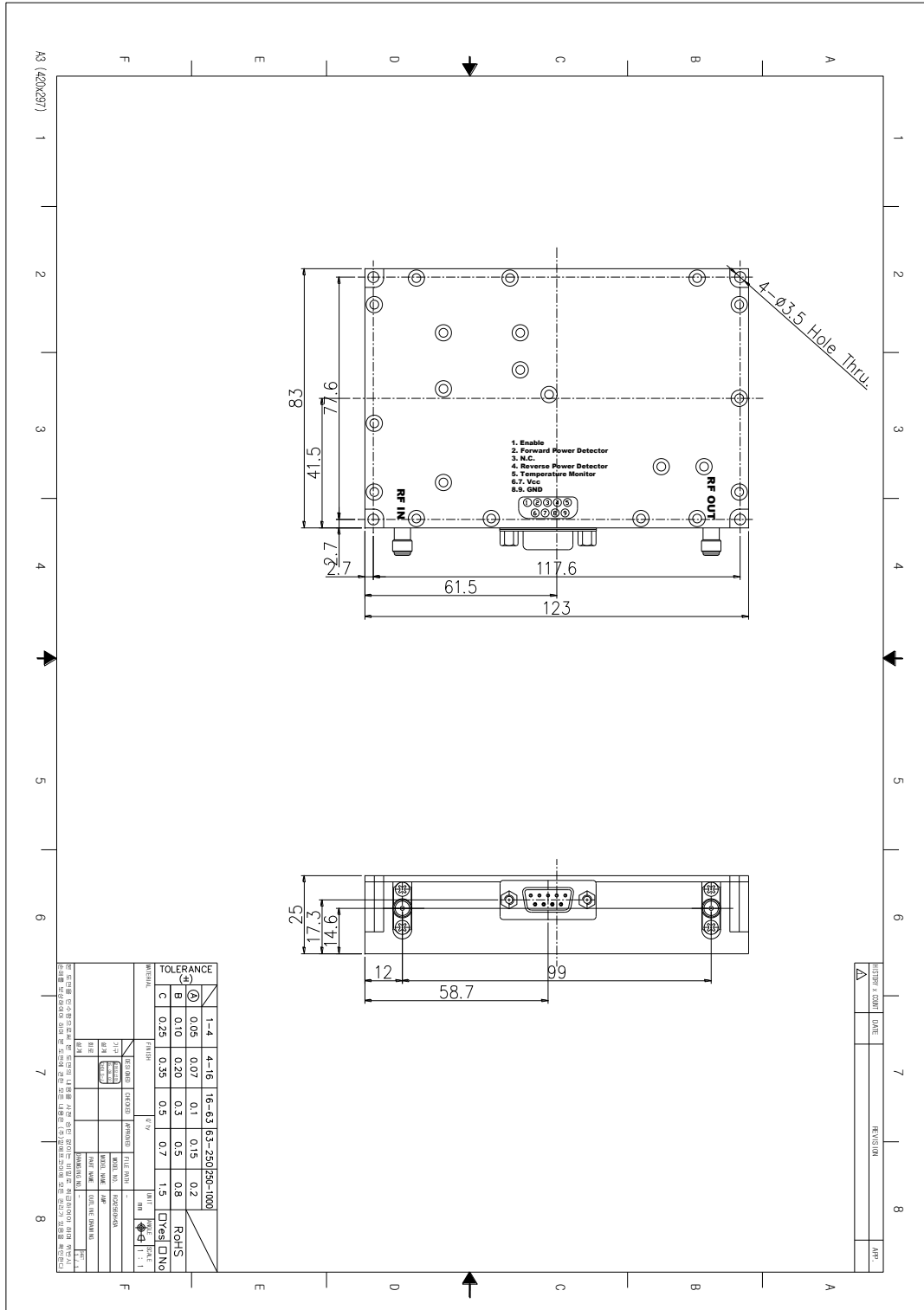
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## MECHANICAL DRAWING



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