

Band-Specific High Power Amplifier

Product Name : RCA2500H42B

Doc. Name : General Spec.

<p style="text-align: center;">General Specification for RCA2500H42B</p>
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2014/6/3	2014/6/3		A	Rfcore co.,Ltd
File : RCA2500H42B General Spec.docx				

The Specifications is subject to change before finalization

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

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<http://www.rfcore.com>

Band-Specific High Power Amplifier

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	2500 ~ 2590 MHz	
Saturated Output Power	15 W(42dBm) min	Operating Temp. , CW
Gain	38 dB min	Input level = -15dBm, Operating Temp.
Gain Flatness	Peak to Peak 2.0 dB	Input level = -15dBm, Operating Temp. , Over Freq. band
Input VSWR	Less than 1.5 : 1	
Output VSWR	Less than 1.5 : 1	Built in Isolator
Maximum Input Power	7 dBm	
DC Current Consumption	3.0 A maximum	@ Pout = 15W, Operating Temp.
DC Input Voltage	28 ± 1.0Vdc	
I/O Map	<ol style="list-style-type: none"> 1. Enable(Active Low) 2. Forward Power Monitor 3. N.C 4. Reflected Power Monitor 5. VSWR Fail Alarm 	Pulled-up @ 5V with 10kohm 4.0±0.2V@42dBm, slope : 0.1V/dB Vpin2 = 4.0-(42-Pout)x0.1±0.2V Vpin4 is the output voltage of diode detector. Vpin4=1 ±0.1V@ Reflected Power = 37.5 ± 1.5dBm Alarm : Reflected power >36dBm @Fcenter
	6,7 Vcc	
	8,9 GND	

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ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-20 ~ 70 °C	
Storage Temperature	-40 ~ 85 °C	

MECHANICAL SPECIFICATIONS		
Parameter	Specification	Remark
Dimension	80 x 95 x 22 mm	
RF Input / Output Connector	SMA – Female	
Interface Connector	D-Sub 9Pin Male	

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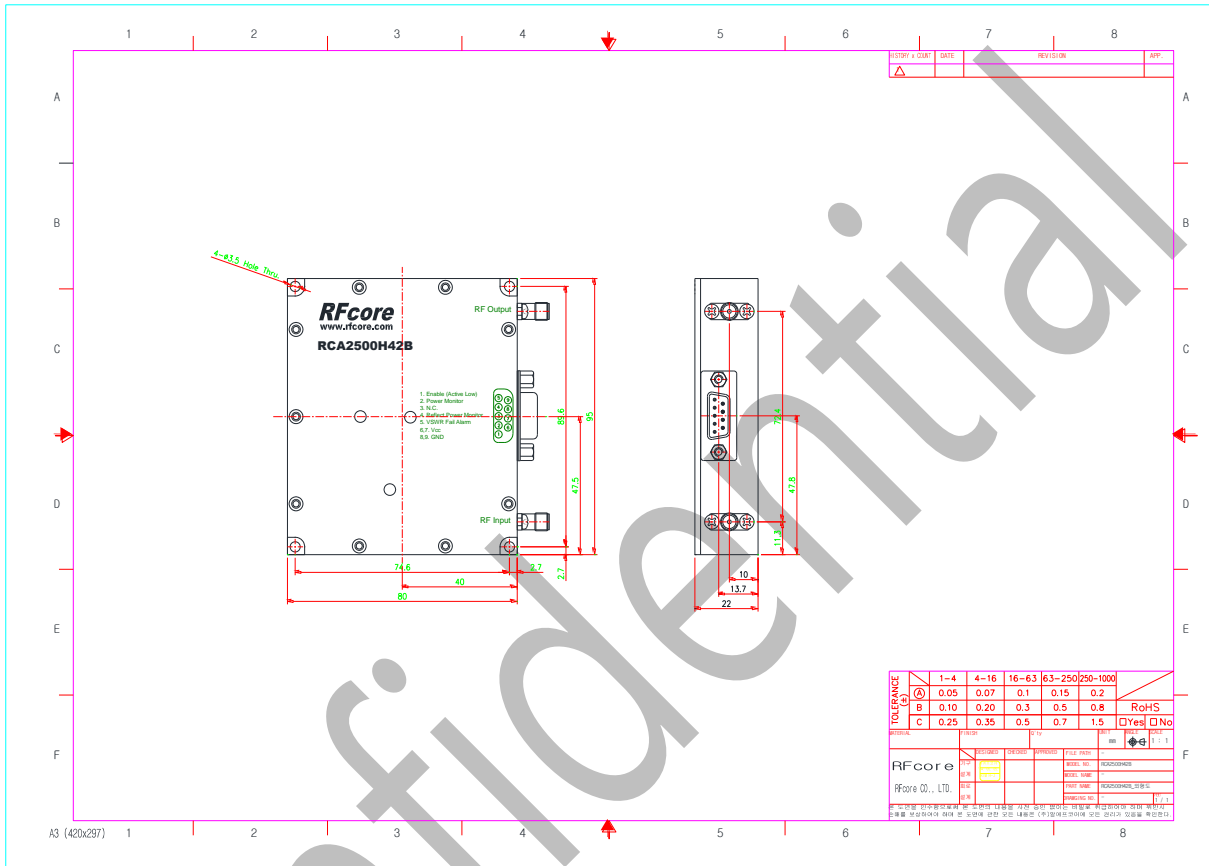
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MECHANICAL DRAWING



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