Product Name: RCA2425H50B, Code Name:

Doc. Name: General Spec.

General Specification for RCA2425H50B

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ELECTRICAL SPECIFICATIONS	@ 28 Vdc, 50 Ohms Load, Tc ≒ 60 °C		
Parameter	Specification	Remark	
Frequency Range	2400 ~ 2500 MHz		
Saturated Output Power	100 W min.	@ CW, 50 ohms load condition	
Gain	47 dB min.	Input = -15 dBm	
Gain Flatness	Peak to Peak 1.0 dB	Input = -15 dBm	
Maximum Input Power for no	10 dBm max		
damage on DC ON	10 dbiii iiiax		
Input VSWR	Less than 1.5:1		
Output VSWR	Less than 1.5:1	Built in Isolator	
Maximum load VSWR for amplifier	Infinite, all phase		
survival			
Harmonics(H2, H3)	Less than - 40 dBc		
Spurious	Less than - 60 dBc		
On/Off Switching Time	1 usec typ.		
DC Input Voltage	28 ± 1.0 Vdc		
Quiescent Current	1.5 A typ.	0.3A max. @ shutdown	
DC Input Current	9 A typ. , 11 A max	Eff. > 35% @ Pout = 100 W CW	
RF Input Signal Format	CW		

Interface Pin Description		
Connector	Description	Specification
I/O Interface(7W2)	1. Enable (Active low)	Pulled-up @ 5V with 10kohm
	2. Forward Power Monitor	Logarithmic Detector(0.05V/dB)
	3. Do not connect	
	4. Reflected Power Monitor	Logarithmic Detector(0.05V/dB)
	F. Tomporatura Manitar	VT= 10(mV) * Tc(°C) + 500(mV),
	5. Temperature Monitor	Tc = Case Temperature± 5°C
	A1. VCC	
	A2. GND	

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ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Remark
Operating Case Temperature	-20 ~ 70 ℃	
Storage Temperature	-40 ~ 85 ℃	

MECHANICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS		
Parameter	Specification	Remark
Dimension	171 x 81 x 27 mm	
Weight	Less than 780 g	
RF Input Connector	SMA Female	
RF Output Connector	SMA Female	
I/O Interface Connector	7W2P	
Cooling	Adequate Heat-sink required	

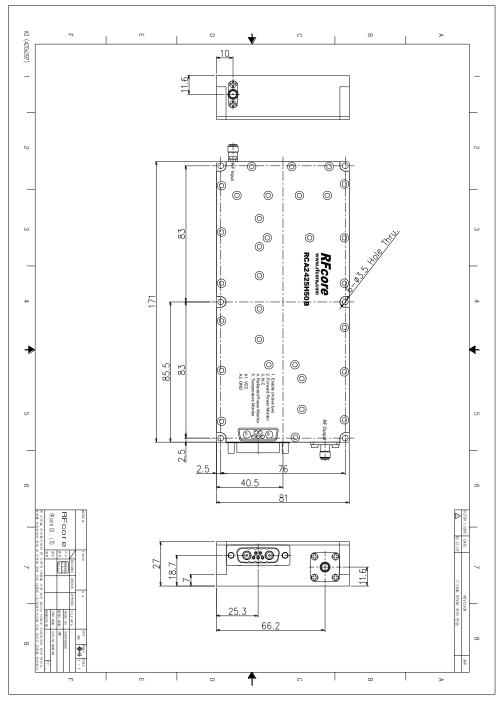
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MECHANICAL DRAWING



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