

Band-Specific High Power Amplifier

Product Name : RCA5159H40D1, Code Name :

Doc. Name : General Spec.

<p style="text-align: center;">General Specification for RCA5159H40D1</p>

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Created	Printed	Document Number	Revision	Manufacturer
2019/1/22	2019/5/30		A	RFcore co.,Ltd
File : RCA5159H40D1 General Spec.docx				

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		@ 50 Ohms load, 28 Vdc, Tc = 30 °C
Parameter	Specification	Remark
Frequency Range	5150 ~ 5875 MHz	
Saturated Output Power	10 W min.	@ CW, 50 ohms load
Large Signal Gain	40 dB min.	Input Level = 0 dBm
Large Signal Gain Flatness	Peak to Peak 3 dB	Input Level = 0 dBm
Maximum Input Power for no damage	7 dBm	@ CW, 50 ohms load
Input VSWR	Less than 2.0 : 1	
DC Input Voltage	28 ± 1 Vdc	
Current Consumption	1.8 A typ. 2.5 A max.	@ Pout = 10W CW, 50 ohms load
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	Do not connect.
	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	-30 ~ +70 °C	At a hottest point of the mechanical case of amplifier module
Storage Temperature	-40 ~ +85 °C	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	110 * 90 * 25 mm	w/o connectors
Weight	Less than 450 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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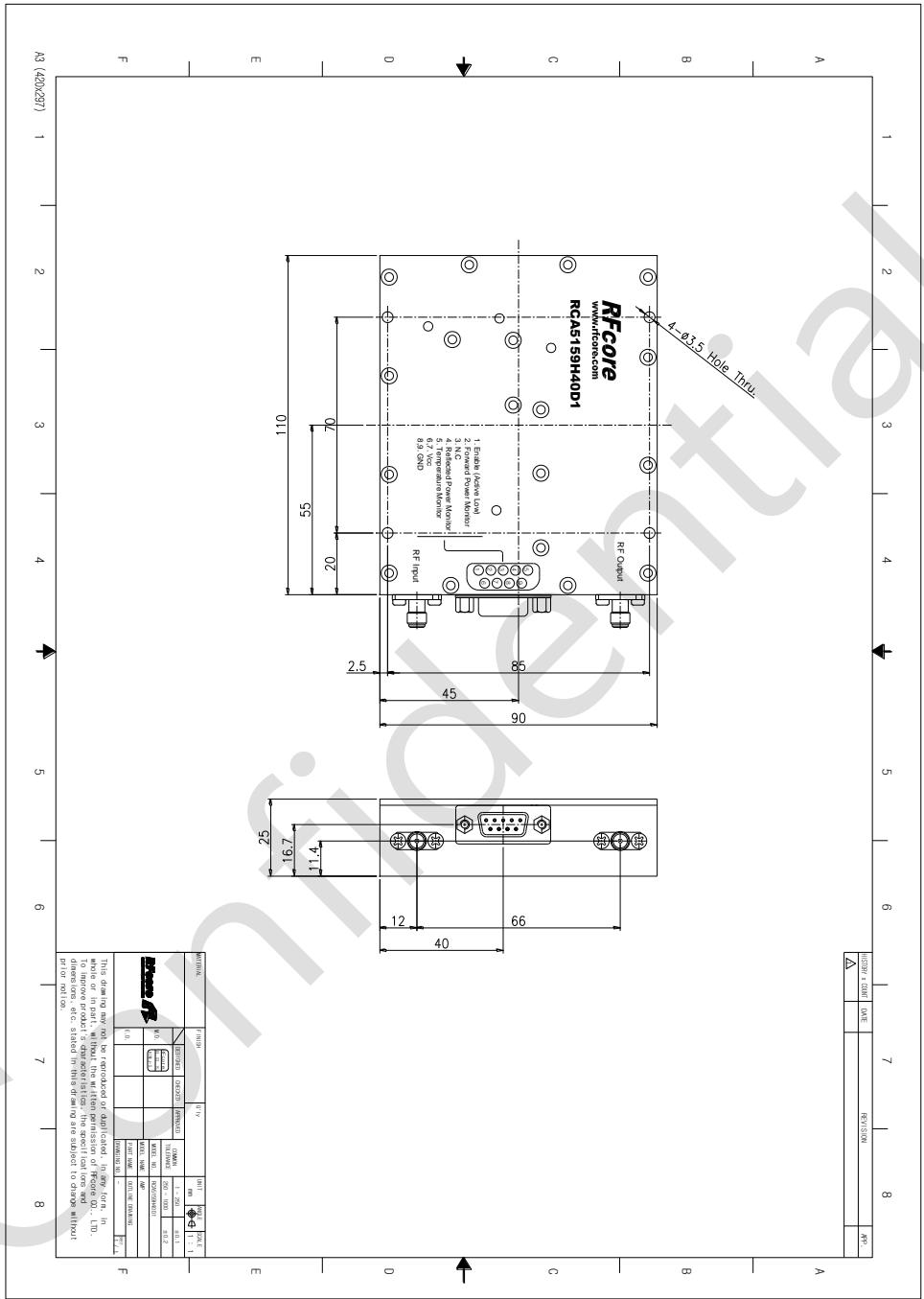
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MECHANICAL DRAWING



DRAWING REFERNECE: This is subject to change without notice.

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