

## Product Features

- Frequency from 1.2 ~ 1.3GHz
- 50ohm Input/Output Impedance
- Low Noise Figure
- Flexible bias voltage: 14.5 to 15.5 V

## Applications

- L-Band Radar
- Communication system



## Description

The RRM1213-22R1A-15P is designed for the L-band Radar system. This LNA Module provides ultra-low noise figure and high P1dB.

## Electrical Specifications @ Ta=23°C, 50Ω System

PARAMETER	UNIT	MIN	TYP	MAX
Operating Frequency	GHz	1.2		1.3
Output P1dB	dBm	15		
Noise Figure	dB			0.8
Gain	dB	21		23
Gain Flatness	dB	-0.35		+0.35
Input VSWR	-			1.9
Output VSWR	-			1.9
MAX Input Power(CW Condition)	dBm			20
Operating Voltage	V	14.5		15.5
Current	mA			200

## Environmental Specifications

Operating Temperature	-40°C to +75°C
Storage Temperature	-50°C to +85°C
Humidity <sup>(1)</sup>	Non-condensing Relative humidity level of 90 ~ 95% @Ta <sup>(2)</sup> =+40°C±2°C

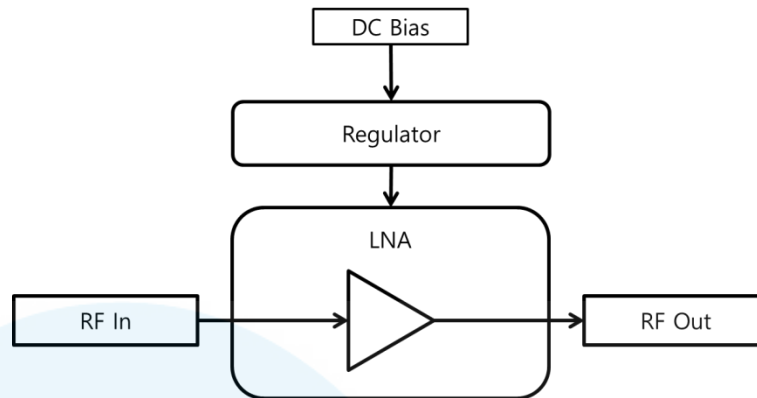
(1) Ref. : mil-STD-202H method 103

(2) Ta = ambient temperature

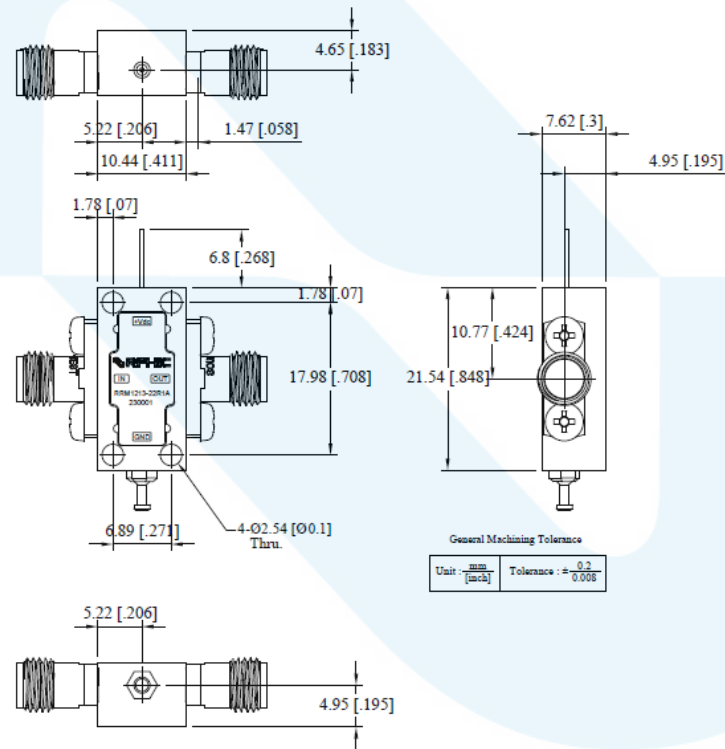
## Mechanical Specifications

Physical Dimension ( W × D × H )	10.44mm x 21.54mm x 7.62mm
DC Connector	Feedthrough (Male)
RF Connector	SMA Connector (Female)

Block Diagram



Drawing



**Revision History**

Part Number	Release Date	Version	Description	Data Sheet Status
RRM1213-22R1A-15P	23/11/24	V0.1	Initial release of datasheet	



**Certification**

This product is manufactured by a company that is certified for the AS9100D quality management system.

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