

V Band Receiver, 56-71GHz

2025-12-3

High gain 28dB, NF=3dB, WR-15



Product Overview

AT-VRX-5671C1 is a V Band Receiver with high gain and low NF performance.

The Rx is integrated with High Performance GaAs MMIC chips. RF frequency range is 56-71GHz, LO range is 9.3-11.83GHz with x6 times multiplier inside. IF range is DC-16GHz The receiver is with compact size. LO/IF port is with SMA, and RF port is with standard WR-15.

More information, please visit www.atmicrowave.com

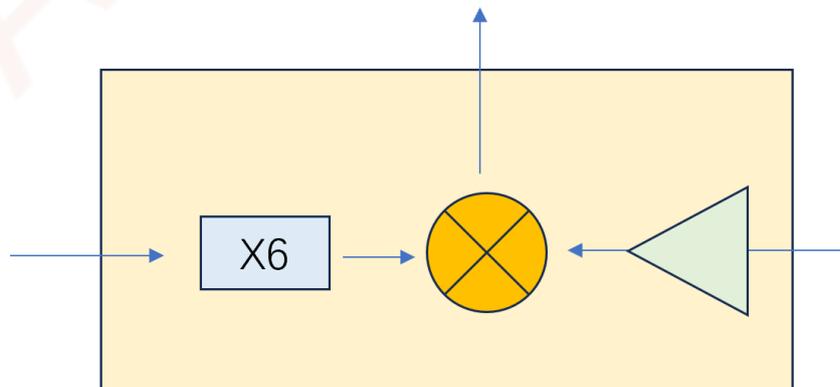
Feature

- ✓ Frequency: 56-71GHz
- ✓ Gain: 30dB typical
- ✓ IF Range: DC-16GHz
- ✓ NF=3dB Typical
- ✓ Single Power Supply

Application

- ✓ V Band Communication
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Diagram Block





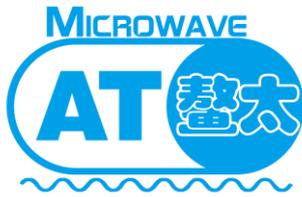
AT-VRX-5671C1

Compact V Band Receiver, 56-71GHz

Key Features

Parameter	Min	Typical	Max
RF Frequency	56GHz		71GHz
LO Frequency	9.5GHz		12GHz
LO Multiplier Factor		X6	
LO Power		+5dBm	+10dBm
IF Frequency		DC-16GHz	
NF		3 dB	
Conversion Gain (IF=100MHz)	28dB	30 dB	
RF Input P1dB		-40dBm	
RF Damaged Input Level			+7dBm
RF Return Loss		-7dB	
LO Return Loss		-10dB	
Power Supply		+5/250mA	+8V
Spec Temp		25C	





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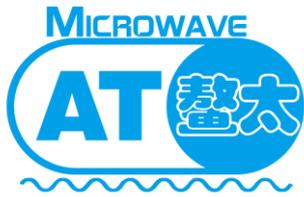
Mechanical Information

Parameter	Description
RF Port	WR-15 Waveguide with UG-385/U Anti-Cocking Flange
LO Port	SMA Female
IF Port	SMA Female
Case Material (Note)	Copper
Finish	Gold Plated
Weight	Tbd
Dimension	See outline

Absolute Maximum Ratings Table

Parameter	Value
RF Power	+7dBm
LO Port	+15dBm
Power Supply	+7V
Operating Temperature	0 to +50C
Storage Temperature	-55 to +125C

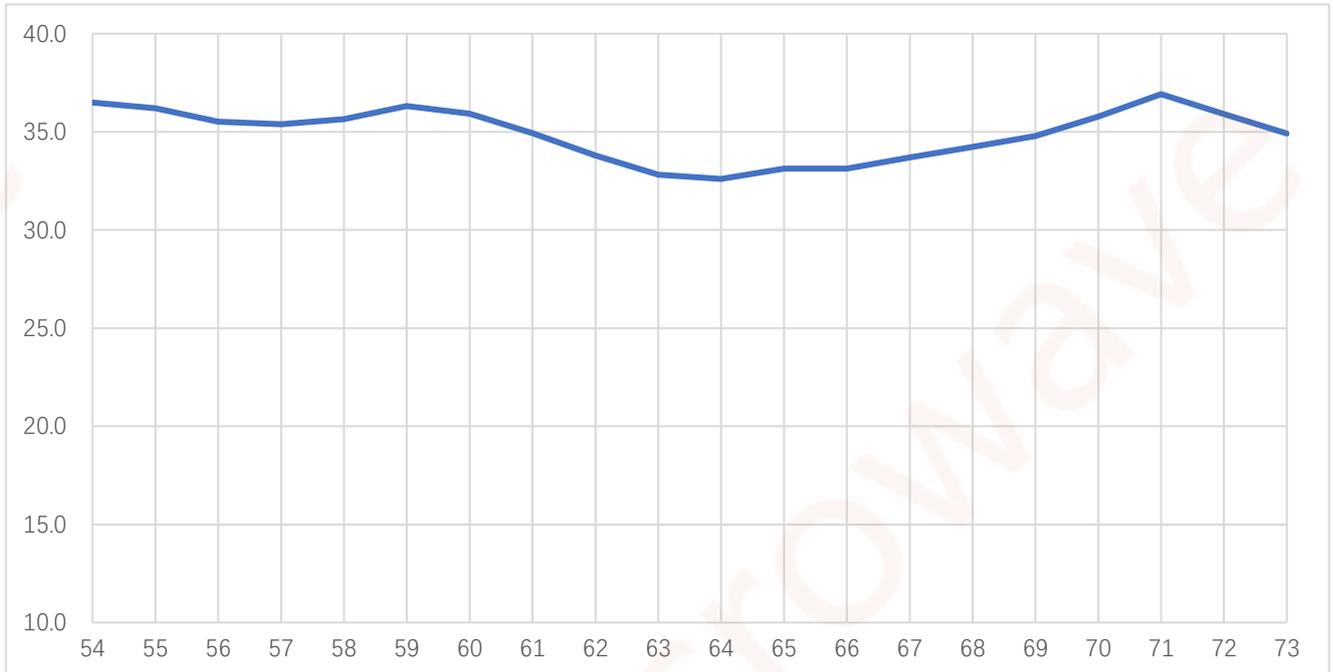




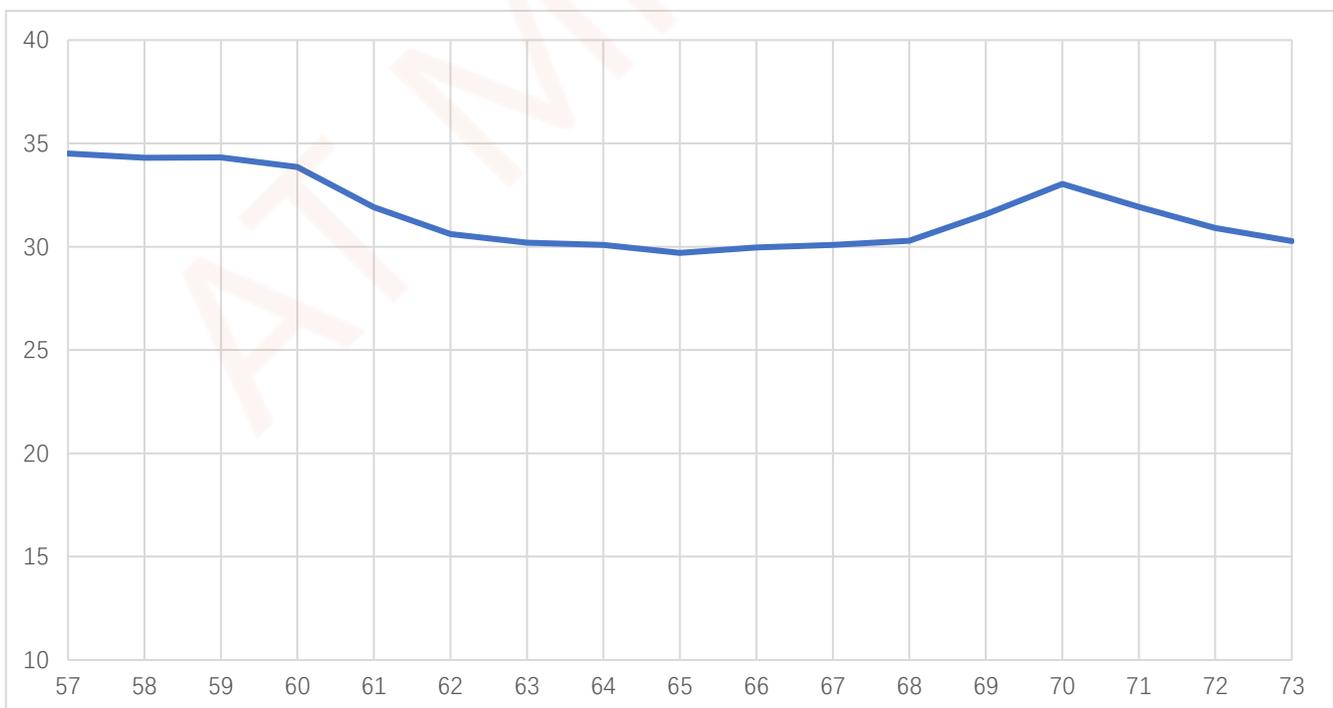
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TEST DATA(25C)

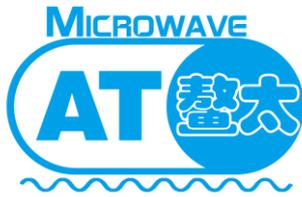


Gain vs RF Frequency, Fixed IF=100MHz



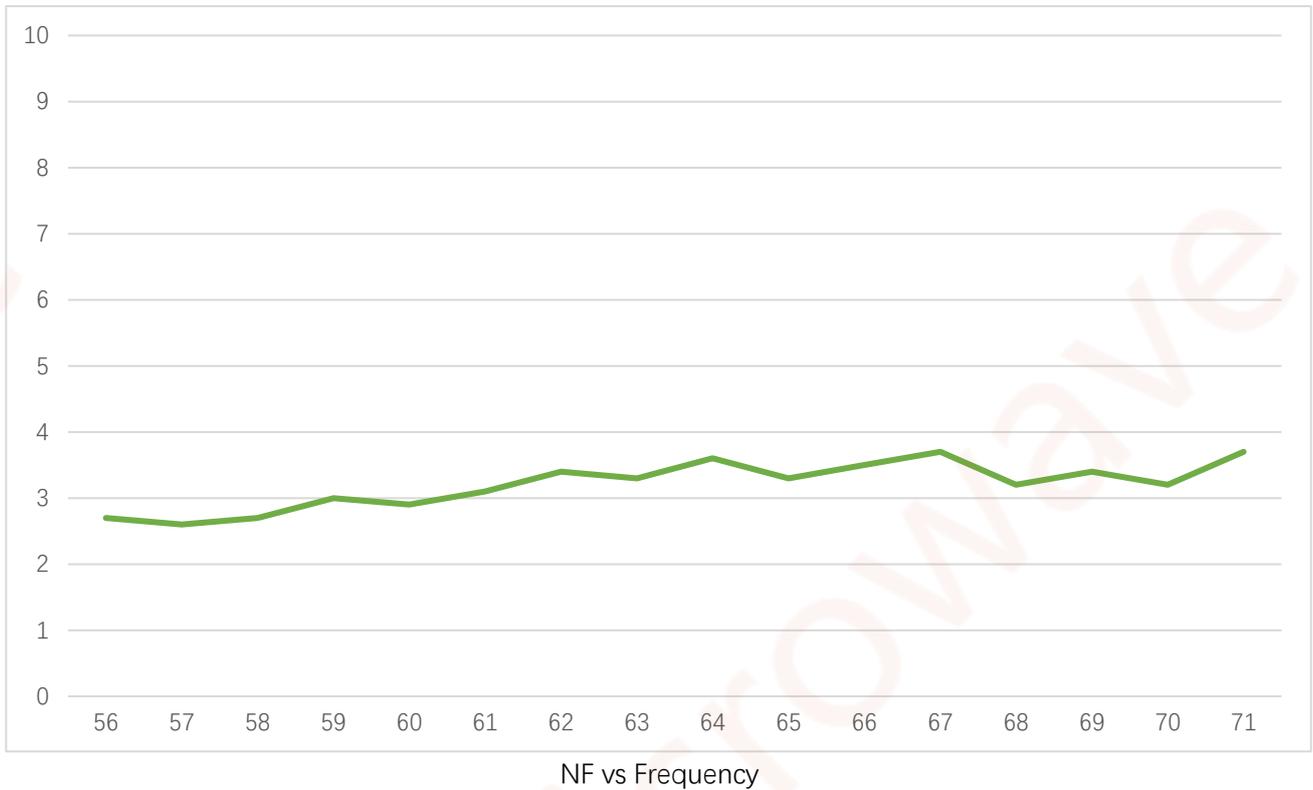
Gain vs RF frequency, Fixed LO=56GHz





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Dimension (mm)

