

# SAC1136

GaAs MMIC Low Noise Amplifier Module  
0.9GHz~2GHz

Rev 1.0

## Features

- Frequency: 0.9GHz~2GHz
- Gain: 15dB
- Noise Figure: 0.7dB
- Supply Current: 40mA
- Size: 54mm×30mm×8mm

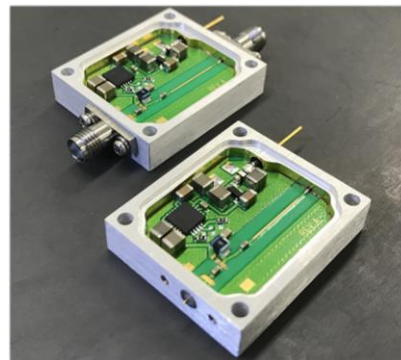
## Typical Applications

- Microwave radio including point to point communication
- Telecommunication
- Weather radar
- Optical communication
- Test instrumentation
- SatCom
- VSAT
- Military and Aerospace

## General Description

SAC1136 is a low noise amplifier module with a typical small signal gain of 15 dB and a nominal  $P_{-1dB}$  of +12 dBm across the frequency range of 0.9 to 2GHz

## Image



## Electrical Performance ( $T_A=25^{\circ}C, I_D=40mA, Z_O=50\Omega$ )

Parameter	Min.	Typ.	Max.	Units
Frequency Range		0.9~2		GHz
Gain	—	15	—	dB
Noise Figure	—	0.7	—	dB
Output Power for 1 dB Compression ( $OP_{-1dB}$ )	—	15	—	dBm
Input VSWR	—	1.5	—	:1
Output VSWR	—	1.5	—	:1
Reverse Isolation	—	-28	—	dB
Supply Voltage	7	—	15	V
Supply Current	—	40	—	mA

## Mechanical Specifications

Parameter	
Input/Output	SMA/SMA
Bias	Pin/Case ground
Case Material	Aluminum alloy
Weight	85g

## SuperApex Corporation

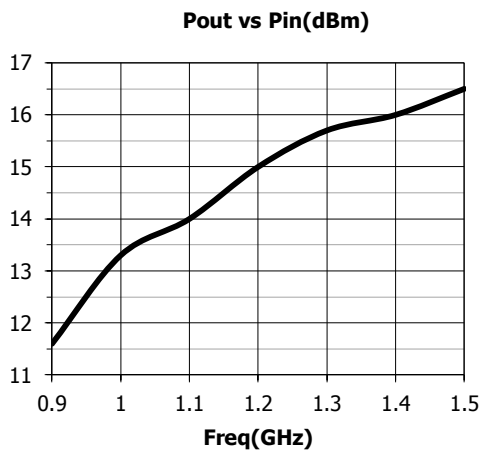
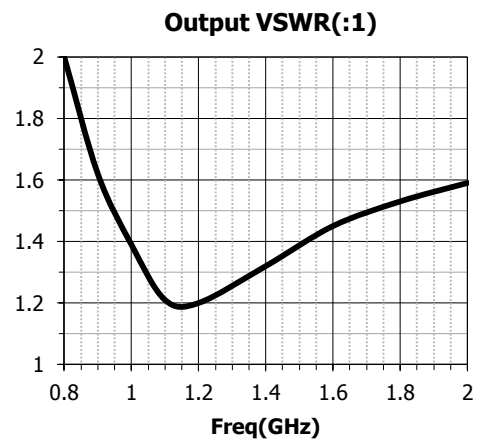
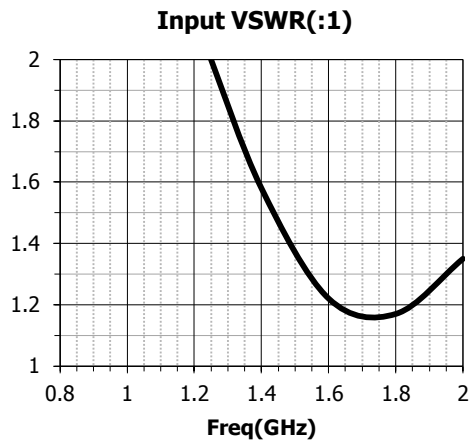
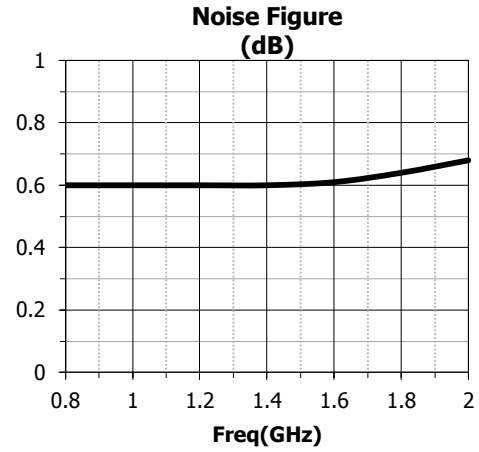
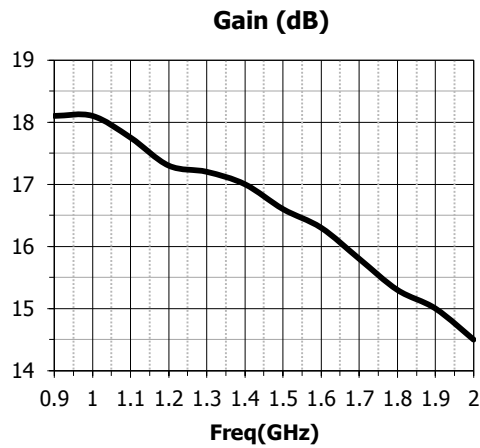
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## Typical Performance Curve



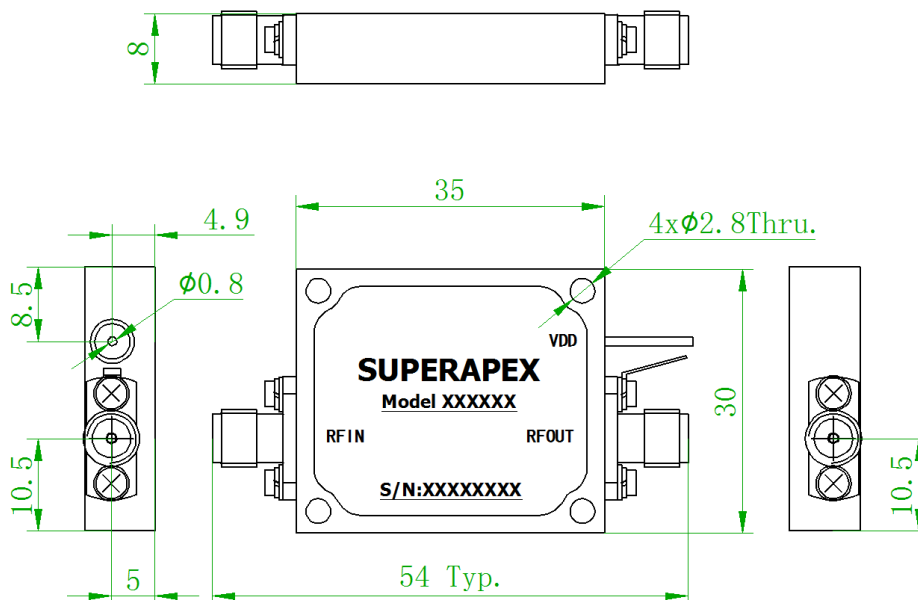
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## Mechanical Outline:

All dimensions are in millimeters



### Note:

1. Other mechanical configurations are available under different model numbers
2. Two SMA Connectors are field-replaceable

### Attention:

GaAs MMIC devices are susceptible to damage from Electrostatic Discharge. Proper precautions should be observed during handling, assembly and test.