

# SAC1135

GaAs MMIC Low Noise Amplifier Module  
1.2GHz~3.4GHz

Rev1.0

## Features

- Frequency : 1.2GHz~3.4GHz
- Gain: 34dB
- Noise Figure: 0.9dB
- Supply Current: 110mA
- 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

SAC1135 is a low noise amplifier module with a typical small signal gain of 34 dB and a nominal  $P_{-1dB}$  of +18dBm across the frequency range of 1.2 to 3.4GHz.

## Functional Diagram



## Electrical Performance ( $T_A=25^{\circ}C, Z_0=50\Omega$ )

Parameter		Min.	Typ.	Max.	Units
Frequency Range		1.200~3.4			GHz
Gain		29	34	39	dB
Noise Figure	f=1200-1700MHz	—	0.7	1	dB
	f=1700-2700MHz	—	0.6	0.9	
	f=1700-3400MHz	—	0.7	1.1	
Output Power for 1 dB Compression ( $OP_{-1dB}$ )		15	18	—	dBm
Input Return Loss		—	-14	-10	dB
Output Return Loss		—	-13	-8	dB
Reverse Isolation		—	-55	—	dB
Supply Voltage		7	—	15	V
Supply Current		—	0.11	0.15	A

## Mechanical Specifications

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

## SuperApex Corporation

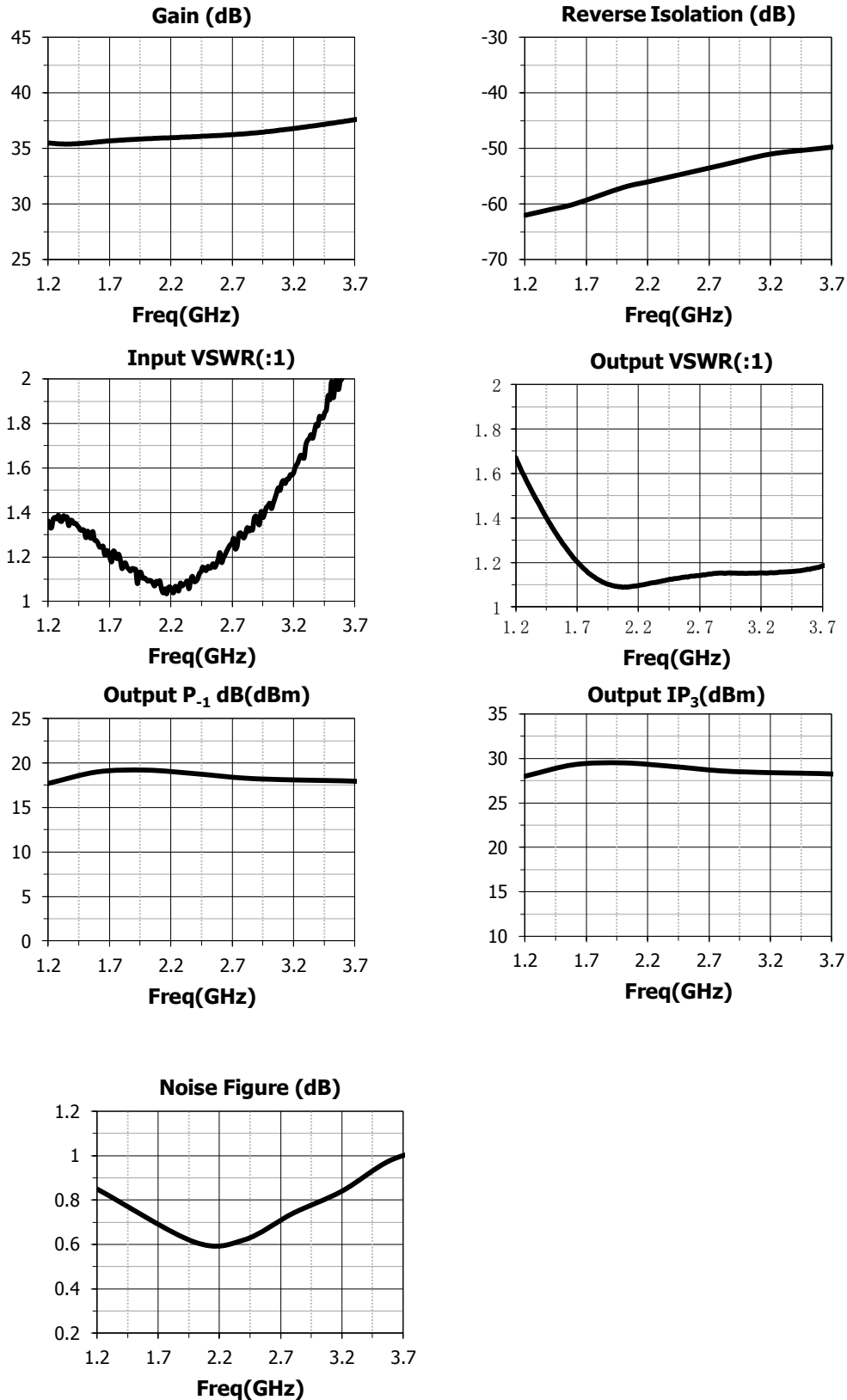
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## Typical Performance Curve



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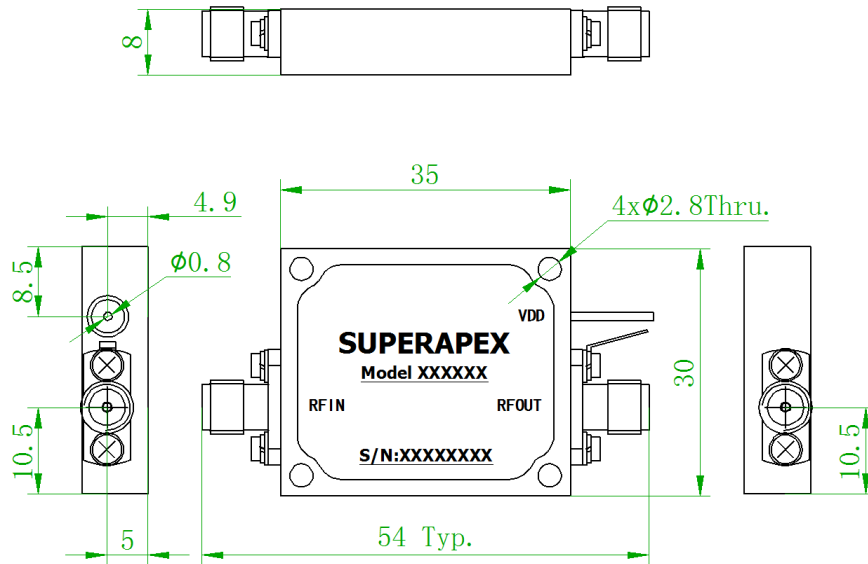
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## Mechanical Outline

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.