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_{-1}dB of +12 dBm across the frequency range of 0.9 to 2GHz.

Image

Electrical Performance

(T_A=25℃, I_D=40mA, Z_O=50Ω)

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_{-1}dB)	—	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

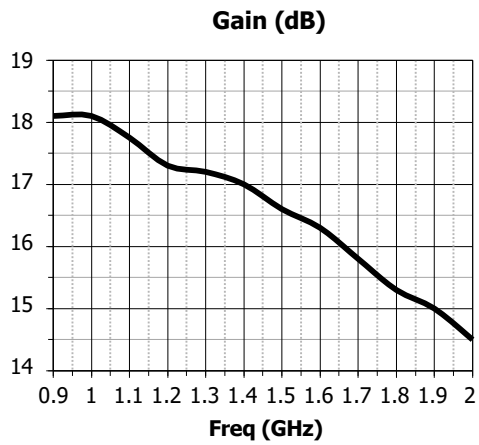
Mechanical Specifications

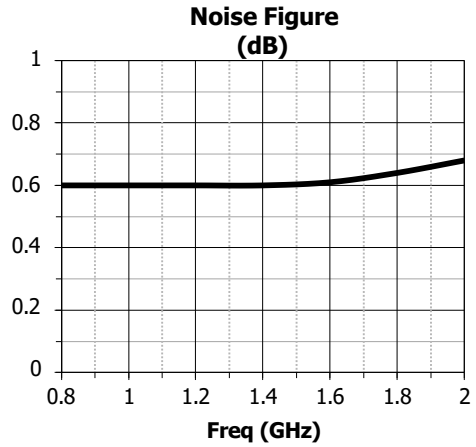
Parameter	
Input/Output	SMA/SMA
Bias	Pin/Case ground
Case Material	Aluminum alloy
Weight	85g

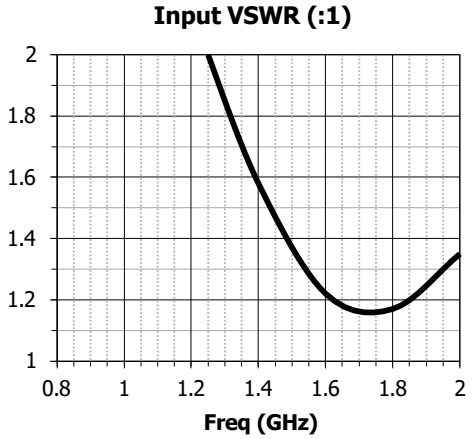
RoHS

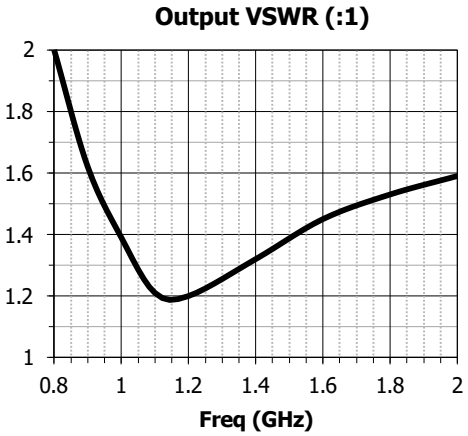
SuperApex, LLC
2801 Lakeside Drive, Suite 208, Bannockburn, IL 60015, USA
Tel: 1-847-505-8319, 1-847-573-9866
E-mail: sales@superapexco.com
Website: www.superapexco.com

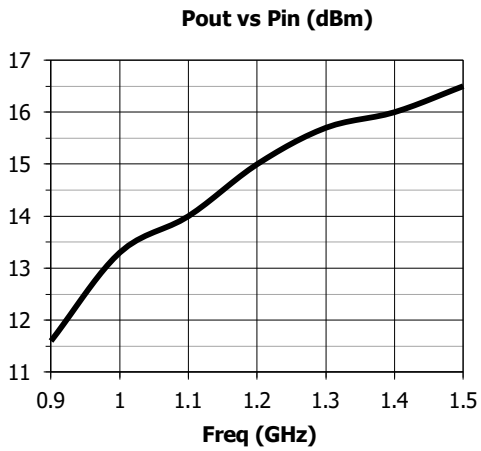
Typical Performance Curve





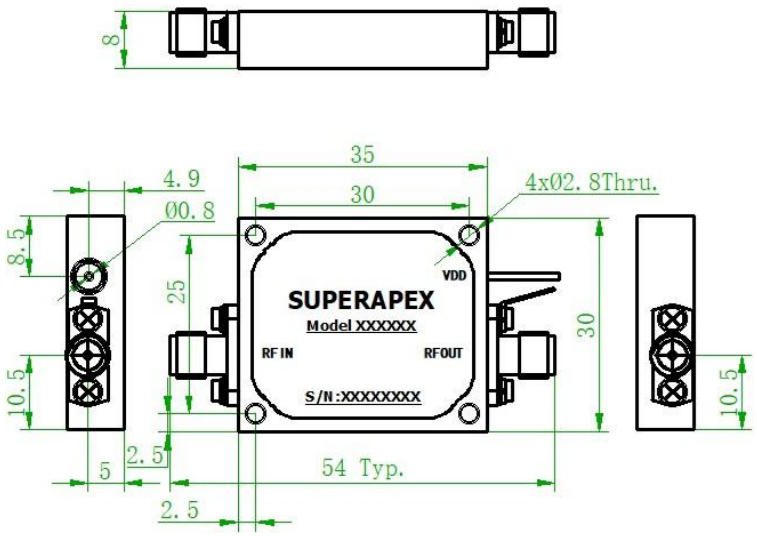






Mechanical Outline

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.