

Features

- Frequency: 0.958~2.150GHz
- Gain: 38~42dB
- OP-1dB: 12dBm
- Noise Figure: 0.5dB
- Supply Voltage: +7~+15V
- Size: 21.8×17.8×7.3mm

Typical Applications

- Radar and ECM VSAT
- RF/ Microwave Radio
- Military and Space
- Test and Measurement

General Description

SAC1407 is a low noise amplifier module with a typical small signal gain of 38~42dB and a nominal OP-1dB of +12dBm across the frequency range of 0.958 to 2.150GHz.

Electrical Performance

Parameter	Min.	Typ.	Max.	Units
Frequency Range	0.958~2.150			GHz
Gain	38	—	42	dB
Gain Flatness	—	±1.0	—	dB
Noise Figure	—	0.5	0.6	dB
Output Power for 1 dB Compression (OP-1dB)	12	—	—	dBm
Input VSWR	—	1.5	2.0	:1
Output VSWR	—	1.7	2.0	:1
Supply Voltage	7	—	15	V
Supply Current	—	120	—	mA

Absolute Maximum Ratings

Maximum Input Power	+20dBm	Operating Temperature	-45°C~+85°C
Storage Temperature	-55°C~+125°C		

Mechanical Outline

All dimensions are in millimeters

