

# SAC1254

## Low Noise Figure Amplifier Module 12~18GHz

Rev1.0

### Features

- Frequency: 12~18 GHz
- Gain: 20dB
- Noise Figure: 1.5dB Typ
- Gain Flatness:  $\pm 1.0$ dB
- Supply Voltage: +5V
- Supply Current: 65mA

### Typical Applications

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

### General Description

SAC1254 is a low noise figure amplifier module with a typical small signal gain of 20dB and a nominal OP-1dB of 10dBm.

### Electrical Performance

Parameter	Min.	Typ.	Max.	Units
Frequency Range	12~18			GHz
Gain	18	20	26	dB
Input VSWR	—	1.5	2.0	:1
Output VSWR	—	1.5	2.0	:1
Noise Figure	—	1.5	1.8	dB
Output Power for 1 dB Compression (OP-1dB)	0	10	—	dBm
Supply Voltage	4.75	5	5.25	V
Supply Current (I <sub>b</sub> )	—	65	100	mA

### Mechanical Outline

All dimensions are in millimeters

