

# SAC1253

## Low Noise Figure Amplifier Module 0.45~0.55GHz

Rev1.0

### Features

- Frequency: 0.45~0.55 GHz
- Gain: 50dB
- Noise Figure: 0.8dB Typ
- Gain Flatness:  $\pm 0.25$ dB
- Supply Voltage: +12V
- Supply Current: 210mA

### Typical Applications

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

### General Description

SAC1253 is a low noise figure amplifier module with a typical small signal gain of 50dB and a nominal OP-1dB of 17dBm.

### Electrical Performance

Parameter	Min.	Typ.	Max.	Units
Frequency Range	0.45~0.55			GHz
Gain	42	46	50	dB
Input VSWR	—	1.5	1.8	:1
Output VSWR	—	1.5	1.8	:1
Noise Figure	—	0.8	1.0	dB
Output Power for 1 dB Compression (OP-1dB)	15	17	—	dBm
Supply Voltage	8	12	18	V
Supply Current ( $I_b$ )	—	210	—	mA

### Mechanical Outline

All dimensions are in millimeters

