

# SAC1270

## Low Noise Amplifier Module 5~7GHz

Rev1.0

### Features

- Frequency: 5~7 GHz
- Gain: 35dB
- Noise Figure: 1.0dB
- Gain Flatness:  $\pm 1.0$ dB
- Supply Voltage: +8V~+15V
- Supply Current: 150 mA

### Typical Applications

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

### General Description

SAC1270 is a low noise amplifier Hermetically Sealed module with a typical small signal gain of 35dB Max and a nominal OP-1dB of 10dBm.

### Electrical Performance

| Parameter                                  | Min. | Typ. | Max. | Units |
|--|------|------|------|-------|
| Frequency Range                            | 5~7  |      |      | GHz   |
| Gain                                       | 27   | —    | 35   | dB    |
| Input VSWR                                 | —    | —    | 2.0  | :1    |
| Output VSWR                                | —    | —    | 2.0  | :1    |
| Noise Figure                               | —    | —    | 1.0  | dB    |
| Output Power for 1 dB Compression (OP-1dB) | 10   | —    | —    | dBm   |
| Supply Voltage                             | 8    | —    | 15   | V     |
| Supply Current (I <sub>b</sub> )           | —    | —    | 150  | mA    |

### Mechanical Outline

All dimensions are in millimeters

