

### Features

- Frequency: 0.485~1.015GHz
- Gain: 38~42dB
- OP-1dB: 17dBm
- 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

SAC1406 is a low noise amplifier module with a typical small signal gain of 38~42dB and a nominal OP-1dB of +17dBm across the frequency range of 0.485 to 1.015GHz.

### Electrical Performance

| Parameter                                     | Min.        | Typ. | Max. | Units |
|-----------------------------------------------|-------------|------|------|-------|
| Frequency Range                               | 0.485~1.015 |      |      | GHz   |
| Gain                                          | 38          | —    | 42   | dB    |
| Gain Flatness                                 | —           | ±1.0 | —    | dB    |
| Noise Figure                                  | —           | 0.5  | 0.6  | dB    |
| Output Power for 1 dB<br>Compression (OP-1dB) | 17          | —    | —    | dBm   |
| Input VSWR                                    | —           | 1.5  | 2.0  | :1    |
| Output VSWR                                   | —           | 1.7  | 2.0  | :1    |
| Supply Voltage                                | 7           | —    | 15   | V     |
| Supply Current                                | —           | 150  | —    | mA    |

### Absolute Maximum Ratings

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

# SAC1406

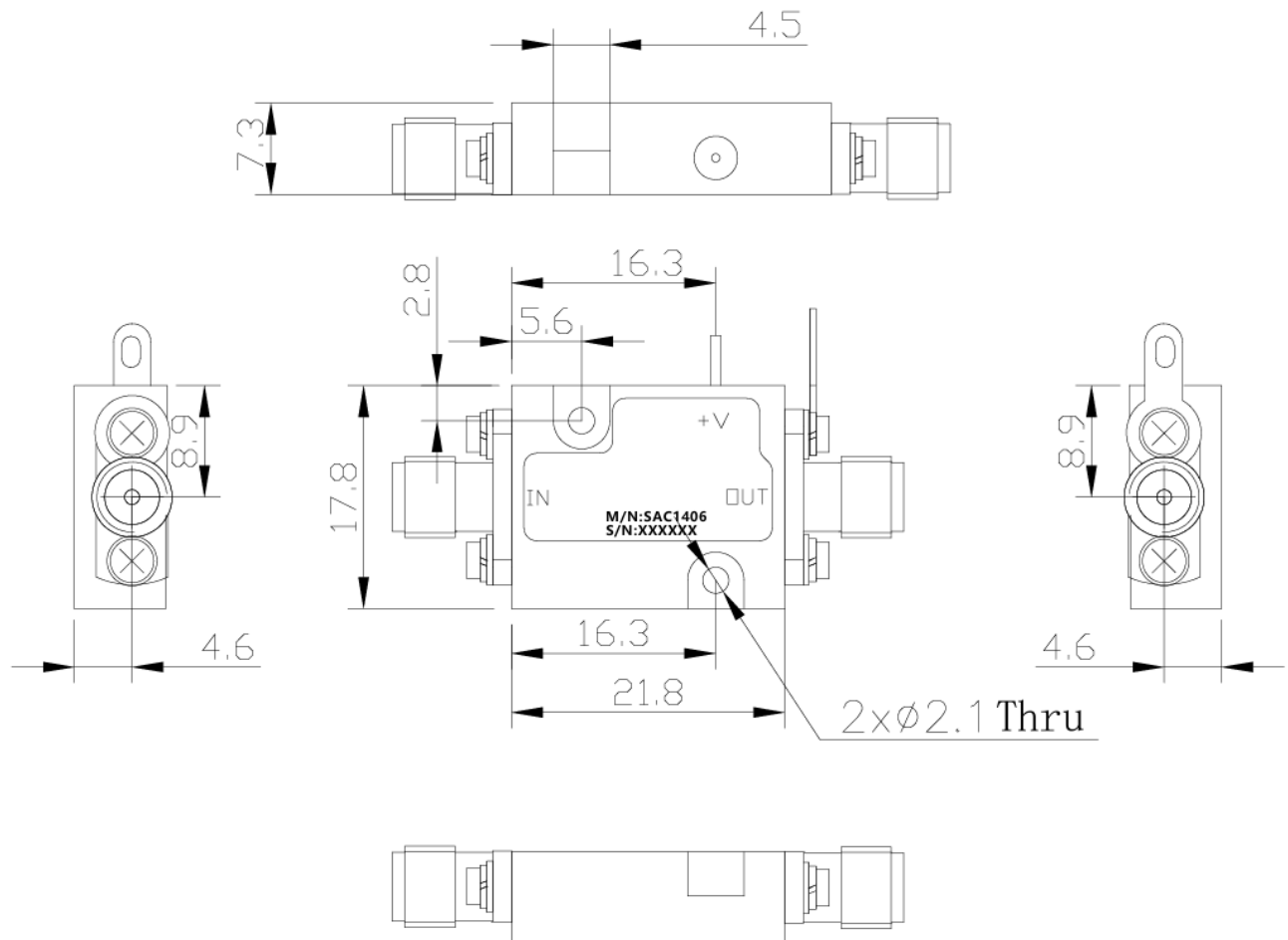


**GaAs MMIC Low Noise Amplifier Module**  
**0.485~1.015GHz NF=0.5dB**

Rev 1.0

## Mechanical Outline

All dimensions are in millimeters



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