

# SAC1313

## Wide-Band Low Noise Amplifier Module 8~12GHz

Rev1.0

### Features

- Frequency: 8~12 GHz
- Gain: 45dB
- Noise Figure: 1.0dB
- Supply Voltage: +8V~+15V
- Supply Current: 100mA

### Typical Applications

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

### General Description

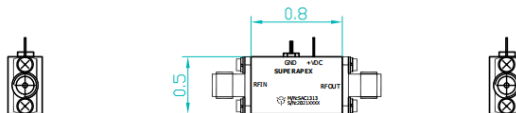
SAC1313 is a Wide-Band Low Noise amplifier manufactured using microwave hybrid integration technology. The operating frequency from 8 to 12 GHz with 45 dB of gain and 10 dBm Output P<sub>-1dB</sub>.

### Electrical Performance

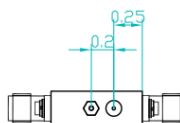
Parameter	Min.	Typ.	Max.	Units
Frequency Range	8~12			GHz
Gain	30	—	45	dB
Gain Flatness		±1.5	—	dB
Input VSWR	—	1.8	2.0	:1
Output VSWR	—	1.8	2.0	:1
Noise Figure	—	1.0	1.3	dB
Output Power for 1 dB Compression (OP <sub>-1dB</sub> )	10	—	—	dBm
Supply Voltage	8	—	15	V
Supply Current (I <sub>D</sub> )	—	—	100	mA

### Mechanical Outline

All dimensions are in millimeters



all dimensions in inch



### SuperApex, LLC

1580 S. Milwaukee Ave. Suite 405, Libertyville, IL 60048, USA  
Tel: 1-847-505-8319, 1-847-573-9866  
E-mail: sales@superapexco.com  
Website: www.superapexco.com