

SAC1137

Low Noise Amplifier Module 2400~2500MHz

Rev1.0

Features

- Frequency: 2400~2500 MHz
- Gain: 27.5 dB
- Noise Figure: 2.7 dB
- OP_{-1dB}: 11 dBm
- Supply Voltage: +5 V
- Supply Current: 0.07 A

Typical Applications

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

General Description

SAC1137 is a low noise amplifier with integrated BPF, the typical small signal gain is 27.5 dB and a nominal P_{-1dB} of +10dBm across the frequency range of 2400 to 2500 MHz.



Electrical Performance

Parameter	Min.	Typ.	Max.	Units
Frequency Range	2400~2500			MHz
Gain	23	27.5	31	dB
Noise Figure	—	2.7	3.1	dB
Output Power for 1 dB Compression (OP _{-1dB})	9	11	—	dBm
Input Return Loss	—	-14	-10	dB
Output Return Loss	—	-14	-10	dB
Reverse Isolation	—	-53	—	dB
Supply Voltage	4.7	5	12	V
Supply Current	—	0.07	0.12	A

Mechanical Specifications

Parameter	
Input/Output	SMA/SMA
Bias	Pin/Case ground
Case Material	Aluminum alloy
Weight	85g

SuperApex Corporation

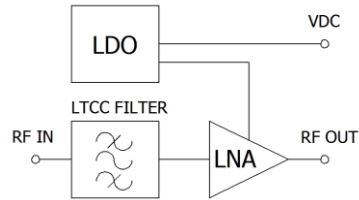
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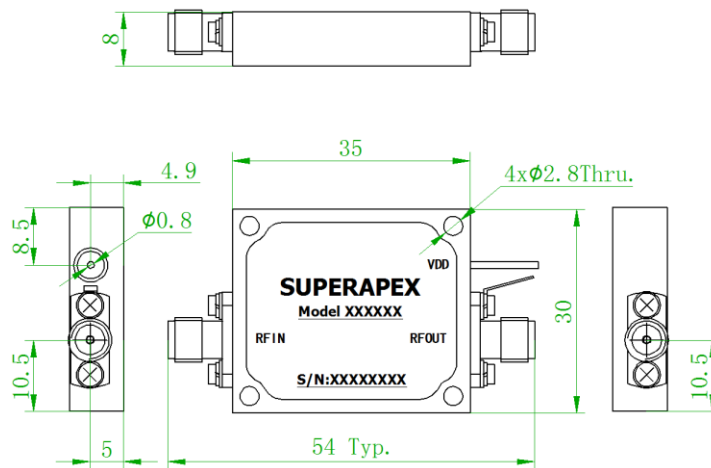
Functional Diagram



*The preferred LTCC BPF model is BFCN-2450+

Mechanical Outline:

All dimensions are in millimeters



Note:

1. Other mechanical configurations are available under different model numbers
2. Two SMA Connectors are field-replaceable