

Features

- Frequency: 27.5~31GHz
- Gain: 24dB
- OP_{-1dB}: 40dBm
- Supply Voltage: +6V
- RF interface:WR28
- Size:110.6mm×44mm×18.8mm

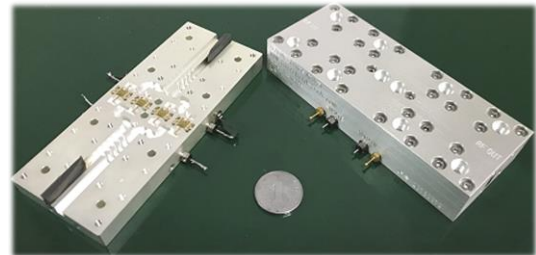
Typical Applications

- Microwave radio
- Telecommunication
- Test instrumentation

General Description

SAC1121 is a GaAs MMIC PHEMT power amplifier module which operates between 27.5 and 31GHz. The amplifier provides up to 24 dB of gain, +40dBm Output P_{-1dB} while requiring 14A from a +6V supply. SAC1121 is an ideal amplifier for microwave radio applications from 28 to 31 GHz.

Picture



Electrical Performance (T_A=25°C, V_D=6V, Z₀=50Ω)

Parameter	Min.	Typ.	Max.	Units
Frequency Range	27.5~31			GHz
Small Signal Gain	22	25	30	dB
Small Signal Gain Flatness	-	±1.5	-	dB
Maximum Input Power	-	-	20	dBm
Output P _{-1dB}	39.5	40	-	dBm
Input VSWR	-	1.35	1.75	:1
Output VSWR	-	1.35	1.75	:1
Reverse Isolation	-	-45	-	dB
Supply Voltage(V _D)	6	-	6.3	V
Quiescent Current	-	8	-	A
Dynamic Current	-	13	14	A
Non Harmonics Spurious	-	-60	-	dBc

Mechanical Specifications

Parameter	
Input/Output	WR-28/WR-28
Bias	Feed thru capacitor
Case Material	7050 Aluminum alloy
Finish	Silver plated
Weight	245g
Cooling	External Heatsink

SuperApex Corporation

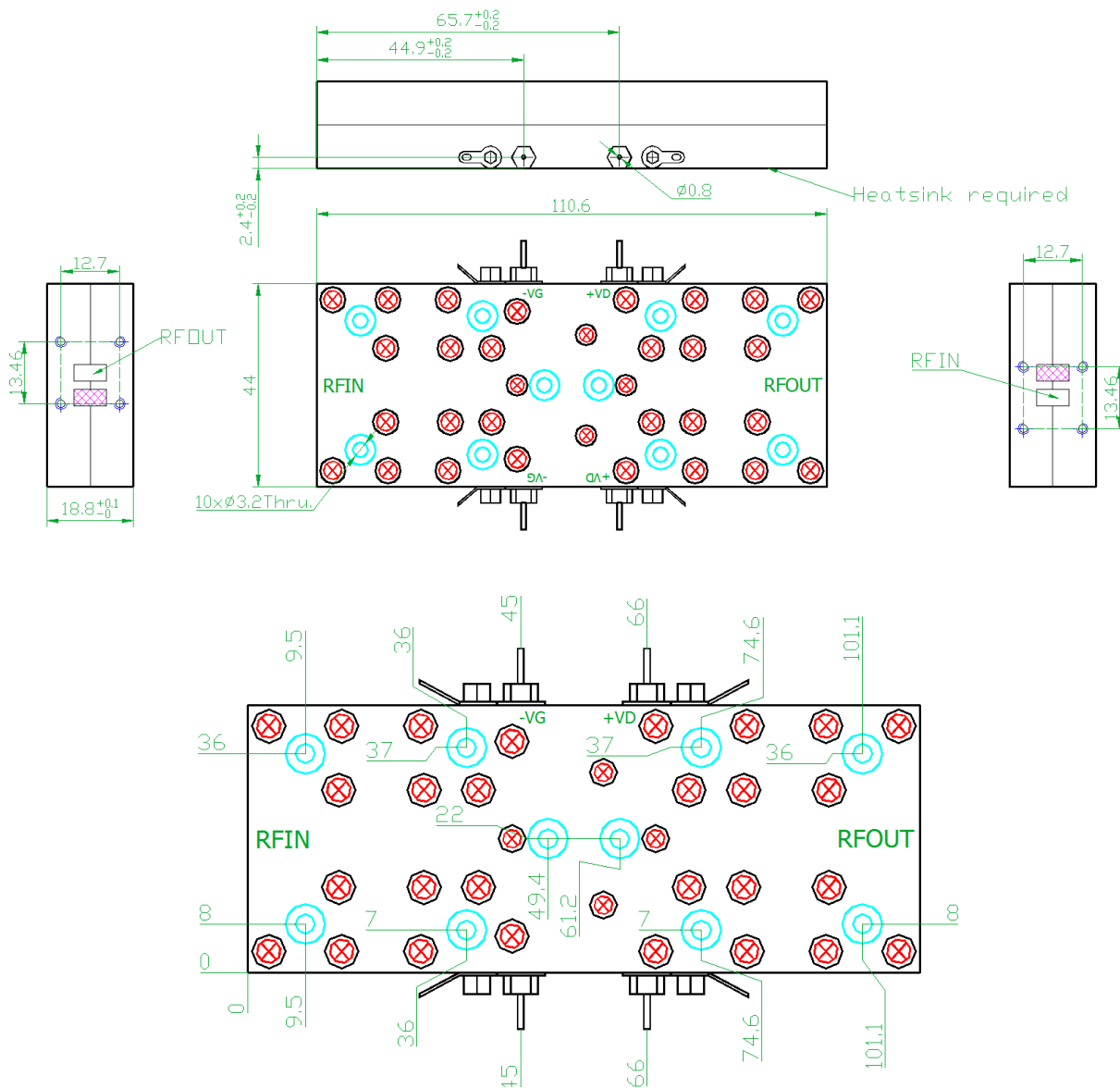
Address: 1580 S. Milwaukee, Ave. Suite 405, Libertyville, IL 60048, USA
 Tel: 1-847-573-9866, 1-847-505-8319
 E-mail: sales@superapexco.com
 Website: www.superapexco.com

Environmental Characteristics

Parameter	
Operating Temperature	-20°C~+60°C
Storage Temperature	-40°C~+85°C
Relative Humidity	5~95% , non-condensing

Mechanical Outline

All dimensions are in millimeters



Note:

There are electrostatic sensitive GaAs devices inside the module, which is susceptible to damage from Electrostatic Discharge.

SuperApex Corporation

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