

Features

- Frequency: 5.4~5.9GHz
- Gain: 28dB
- OP-1dB: 15dBm
- Noise Figure: 0.8dB
- Supply Current: 63mA@8V
- Hermetic Laser Sealing
- Size: 17.8mm×20×10.0mm

Typical Applications

- Microwave radio
- Telecommunication
- Test instrumentation
- Military

General Description

SAC1252A is a low noise amplifier module with a typical small signal gain of 28dB and a nominal OP-1dB of +15dBm across the frequency range of 5.4 to 5.9GHz.

SAC1252A is integrated with SUPERAPEX proprietary low noise GaAs MMIC amplifier chip, high frequency microelectronic assembly techniques, and high reliability design to realize optimum low noise figure, wideband operation.

picture



Electrical Performance

$T_A=25^{\circ}\text{C}$, $I_D=63\text{mA}$, $Z_0=50\Omega$

Parameter	Min.	Typ.	Max.	Units
Frequency Range	5.4~5.9			GHz
Gain	27	28	30	dB
Gain Flatness	-	±0.1	±0.3	dB
Noise Figure	-	0.8	0.9	dB
Output Power for 1 dB Compression (OP _{1dB})	13	15	-	dBm
Output IP ₃	26	28	-	dBm
Input VSWR	-	1.3	1.5	:1
Output VSWR	-	1.3	1.5	:1
Supply Voltage	3	8	10	V
Supply Current	-	63	110	mA

Mechanical Specifications

Parameter	
Input/Output	SMA(F) Field-replaceable
Bias	Pin /Case ground
Case Material	7050 Aluminum alloy
Weight	25g

Absolute Maximum Ratings

Maximum Input Power	+18dBm	Operating Temperature	-55°C~+85°C
Channel Temperature	+150°C	Storage Temperature	-55°C~+150°C

Mechanical Outline

All dimensions are in millimeters

