

Features

- Frequency:1.1~1.6GHz
- Gain:39dB
- OP_{-1dB}:38dBm
- Supply Current:710mA
- Hermetic Laser Sealing
- Size:52.9mm×32mm×10mm

Typical Applications

- Microwave radio
- Telecommunication
- Test instrumentation
- Military

General Description

SAC1237 is a Power amplifier module with a typical small signal gain of 39dB and a nominal OP_{-1dB} of +38dBm across the frequency range of 1.1to 1.6GHz.

SAC1237 is integrated with SUPERAPEX proprietary GaAs MMIC amplifier chip, high frequency micro electronic assembly techniques, and high reliability design to realize optimum wideband operation.

Electrical Performance (T_A=25°C,I_D=710mA,Z₀=50Ω)

Parameter	Min.	Typ.	Max.	Units
Frequency Range	1.1~1.6			GHz
Gain	38	39	40	dB
Gain Flatness	—	—	±1.5	dB
Output Power for 1 dB Compression (OP _{-1dB})	38	—	—	dBm
Output IP ₃	—	43	—	dBm
Input VSWR	—	1.5	1.7	:1
Output VSWR	—	1.8	2.0	:1
Enable Voltage	1.5	2.0	2.5	V
Enable Current	60	100	200	uA
Supply Voltage	22	—	26	V
Supply Current	—	710	1100	mA

Mechanical Specifications

Parameter	
Input/Output	SMA(F) Field-replaceable
Bias	Pin /Case ground
Case Material	6061 Aluminum alloy
Weight	< 50g

Absolute Maximum Ratings

Maximum Input Power	+15dBm	Operating Temperature	-40°C~+85°C
Maximum Supply Voltage	+30V	Storage Temperature	-55°C~+125°C

Mechanical Outline

All dimensions are in millimeters

