

Features

- Frequency: 18~26.5GHz
- Gain: 38dB
- OP₋₁dB: 13dBm
- Noise Figure: 2.9dB
- Supply Current: 110mA
- Hermetic Laser Sealing
- Size: 40mm×22.4mm×22.4mm

Typical Applications

- Microwave radio
- Telecommunication
- Test instrumentation
- Military

General Description

SAC1198 is a low noise amplifier module with a typical small signal gain of 38dB and a nominal OP₋₁dB of +13dBm across the frequency range of 18 to 26.5GHz.

SAC1198 is integrated with SUPERAPEX proprietary low noise GaAs MMIC amplifier chip, high frequency micro electronic assembly techniques, and high reliability design to realize optimum low noise figure, wideband operation.

Electrical Performance (T_A=25°C, I_D=110mA, Z₀=50Ω)

Parameter	Min.	Typ.	Max.	Units
Frequency Range	18~26.5			GHz
Gain	35	38	45	dB
Gain Flatness	—	±1.0	±1.5	dB
Noise Figure	—	3.1	3.4	dB
Output Power for 1 dB Compression (OP ₋₁ dB)	10	13	—	dBm
Output IP ₃	—	20	—	dBm
Input VSWR	—	1.5	2.2	:1
Output VSWR	—	1.5	2.2	:1
Supply Voltage	+12	----	+15	V
Supply Current	—	110	150	mA

Mechanical Specifications

Parameter	
Input	WR42 waveguide
Output	3.5mm-SMA(F) Field-replaceable
Bias	Pin /Case ground
Case Material	7050 Aluminum alloy
Weight	<250g

Absolute Maximum Ratings

Maximum Input Power	+20dBm	Maximum Supply Voltage	+18V
Operating Temperature	-20°C~+85°C	Storage Temperature	-55°C~+95°C

Mechanical Outline

All dimensions are in millimeters

