

Features

- Frequency: 22~26GHz
- Gain: 29dB
- OP₋₁dB: 35dBm
- Supply Voltage: +8~+28V
- Built-in DC/DC converter

Typical Applications

- Microwave radio
- Telecommunication
- Test instrumentation

General Description

SAC1174 is a power amplifier module with a typical small signal gain of 28dB and a nominal OP₋₁dB of 35dBm across the frequency range of 22 to 26GHz.

Image



Electrical Performance (T_A=25°C, V_D=13.5V, Z₀=50Ω)

Parameter	Min.	Typ.	Max.	Units
Frequency Range	22~26			GHz
Small Signal Gain	26	28	34	dB
Noise Figure	—	8	—	dB
Output Power for 1 dB Compression (OP ₋₁ dB)	34.5	35	—	dBm
Input VSWR	—	1.5	2.0	:1
Output VSWR	—	1.5	2.0	:1
Reverse Isolation	—	-55	—	dB
Supply Voltage	8	—	28	V
Supply Current	—	—	2	A
Max Input Power	—	—	18	dBm
Non Harmonics Spurious	—	62	—	dBc
Harmonics*	—	25	—	dBc

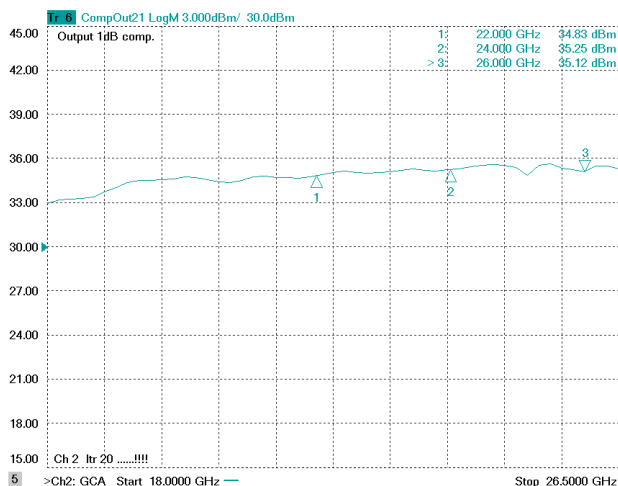
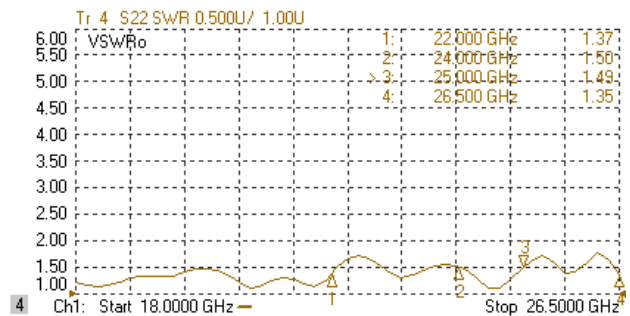
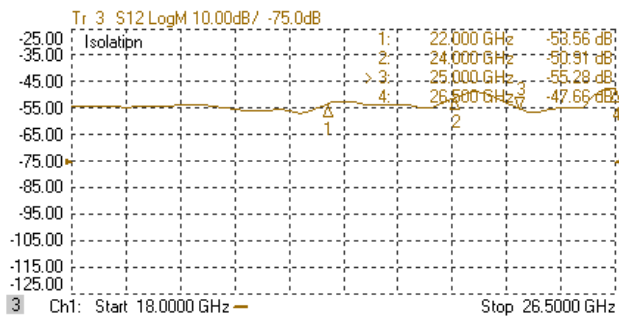
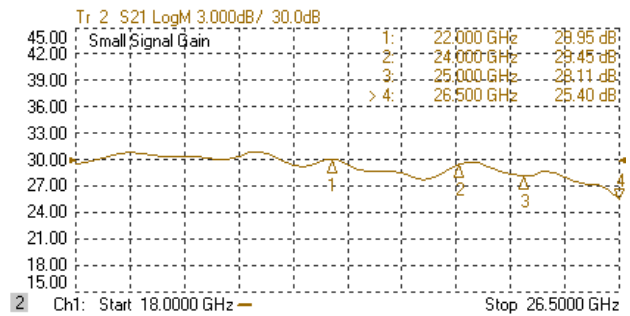
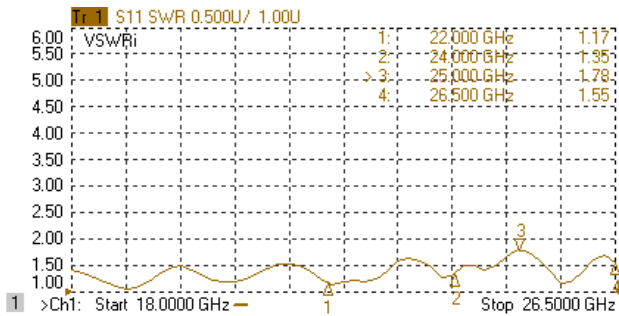
*At P_{out}=33dBm

**Load Standing Wave Ratios in excess of 2.5:1 may cause device damage

Mechanical Specifications

Parameter	
Input/Output	SMA-F/SMA-F
Bias	Pin
Case Material	Aluminum alloy
Weight	145g
Cooling	External Heatsink ,Forced air required

Typical Performance Curve



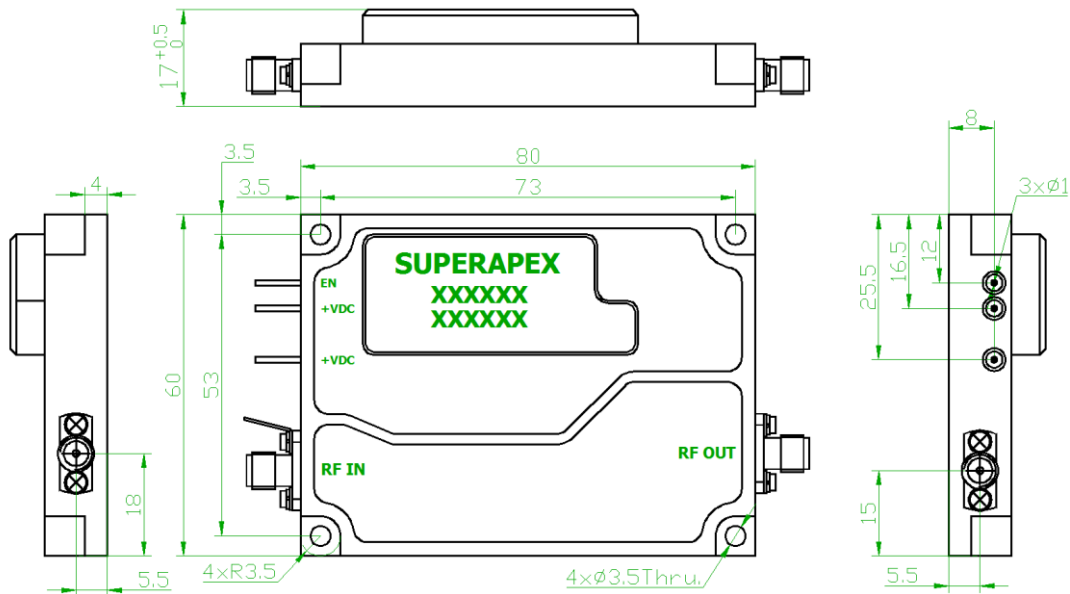
SAC1174

GaAs MMIC Power Amplifier Module
22~26GHz 35dBm

Rev 1.1

Mechanical Outline

All dimensions are in millimeters



Note:

1. Two RF Connectors are field-replaceable