

Features

- Frequency: 22~26GHz
- Gain: 29dB
- OP₋₁dB: 32dBm
- Supply Voltage: +8~+28V
- Built-in DC/DC converter

Typical Applications

- Microwave radio
- Telecommunication
- Test instrumentation

General Description

SAC1173 is a power amplifier module with a typical small signal gain of 28dB and a nominal OP₋₁dB of 32dBm 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	29	34	dB
Noise Figure	—	7.5	—	dB
Output Power for 1 dB Compression (OP ₋₁ dB)	32	—	—	dBm
Input VSWR	—	1.5	2.2	:1
Output VSWR	—	2.5	3.2	: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

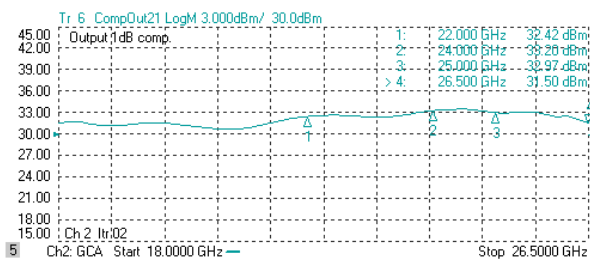
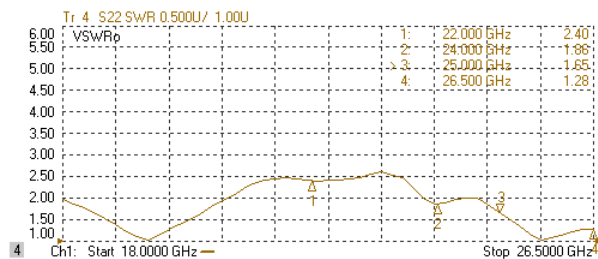
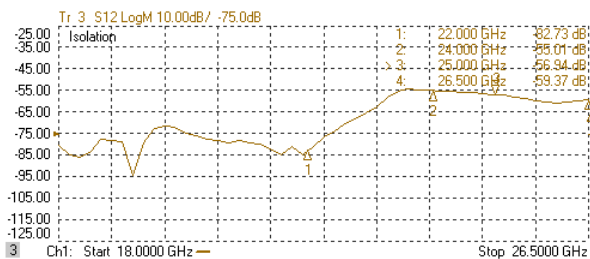
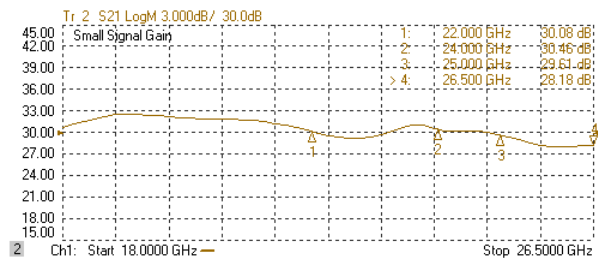
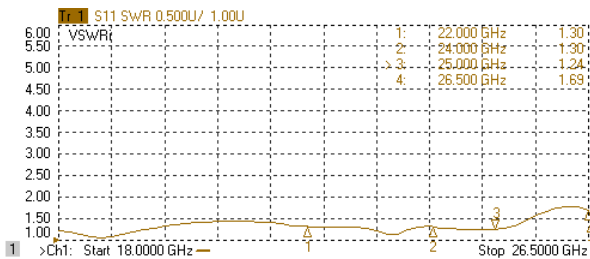
*At P_{out}=30dBm

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

Mechanical Specifications

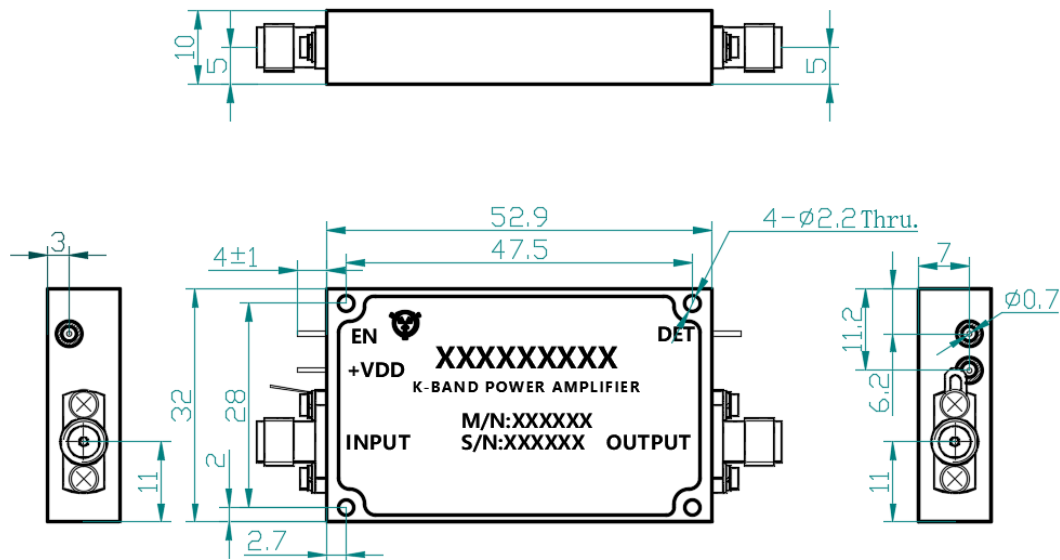
Parameter	
Input/Output	SMA-F/SMA-F
Bias	Pin
Case Material	Aluminum alloy
Weight	45g
Cooling	External Heatsink ,Forced air required

Typical Performance Curve



Mechanical Outline

All dimensions are in millimeters



EN : 0v - OFF, +5v - ON

DET is the internal power detector output and it is mainly used for monitoring power output while we implement electric burn-in test. Its value is about 1.5V@30dBm pout power.

Note:

1. Two RF Connectors are field-replaceable