

Features

- Frequency: 7.9~8.4GHz
- Gain: 44dB
- OP-1dB: 18dBm
- Noise Figure: 1.4Max.
- Supply Current: 190mA
- Module Size: 155.5mm×47.8mm×36mm

Typical Applications

- Microwave radio
- Telecommunication
- Test instrumentation

General Description

SAC1189K is a low noise amplifier module with a typical small signal gain of 44dB and a nominal OP-1dB of 18dBm across the frequency range of 7.9 to 8.4GHz.

Electrical Performance

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

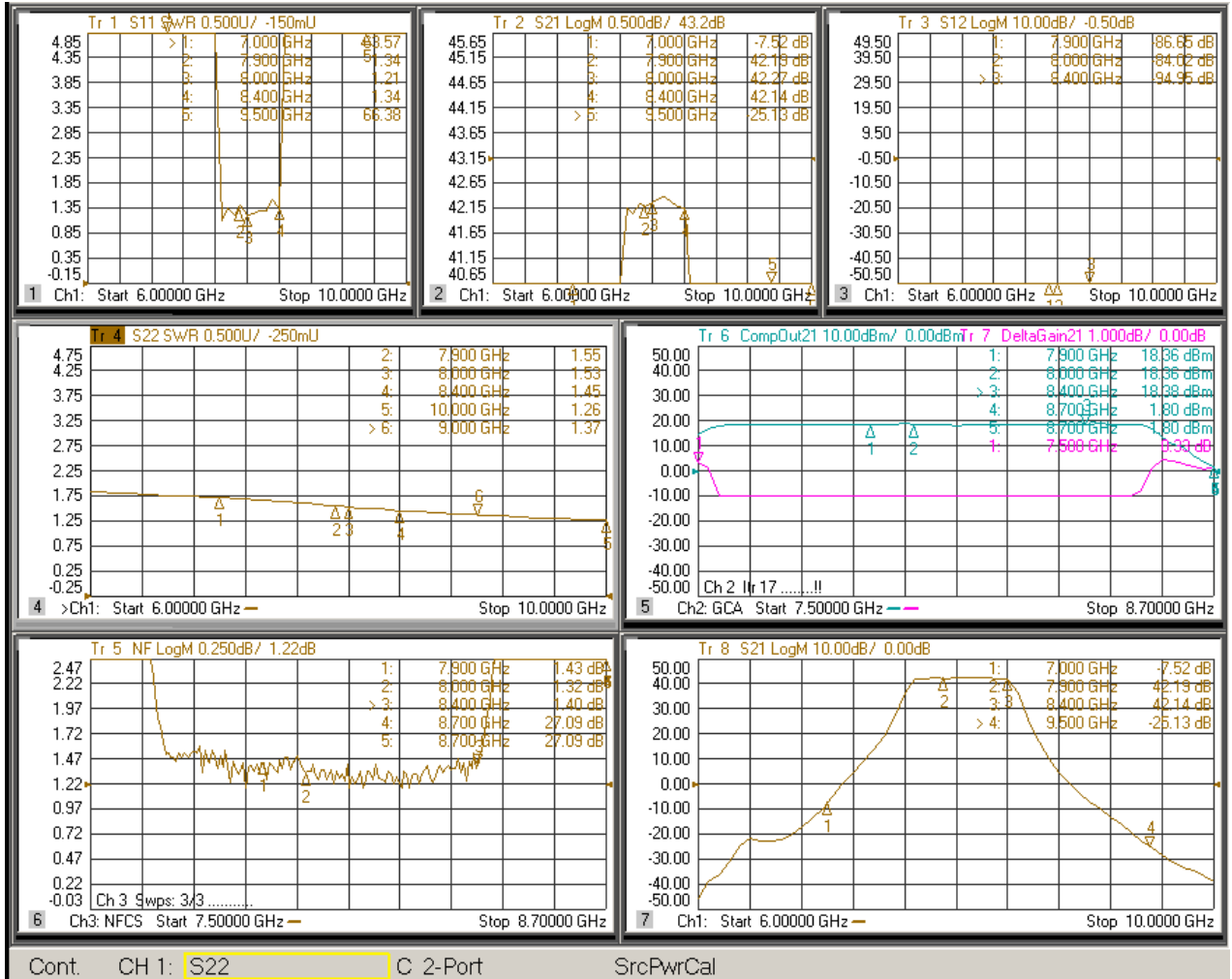
Parameter	Min.	Typ.	Max.	Units
Frequency Range	7.9~8.4			GHz
Gain	41	42	44	dB
Gain Flatness	–	±0.2	–	dB
Noise Figure	–	1.4	1.6	dB
Output Power for 1 dB Compression (OP-1dB)	17	18	–	dBm
Attenuation @7GHz	45	49	–	dB
Attenuation @9.5GHz	50	60	–	dB
Input VSWR	–	1.3	1.5	:1
Output VSWR	–	1.4	1.6	:1
Supply Voltage	8	12	15	V
Supply Current	–	190	–	mA

Mechanical Specifications

Parameter	
Input	WR-112
Output	SMA(F)
Power supply interface	SMA(F)
Case Material	Aluminum alloy
Weight	25g

Typical Performance Curve

TA=25°C



SAC1189K

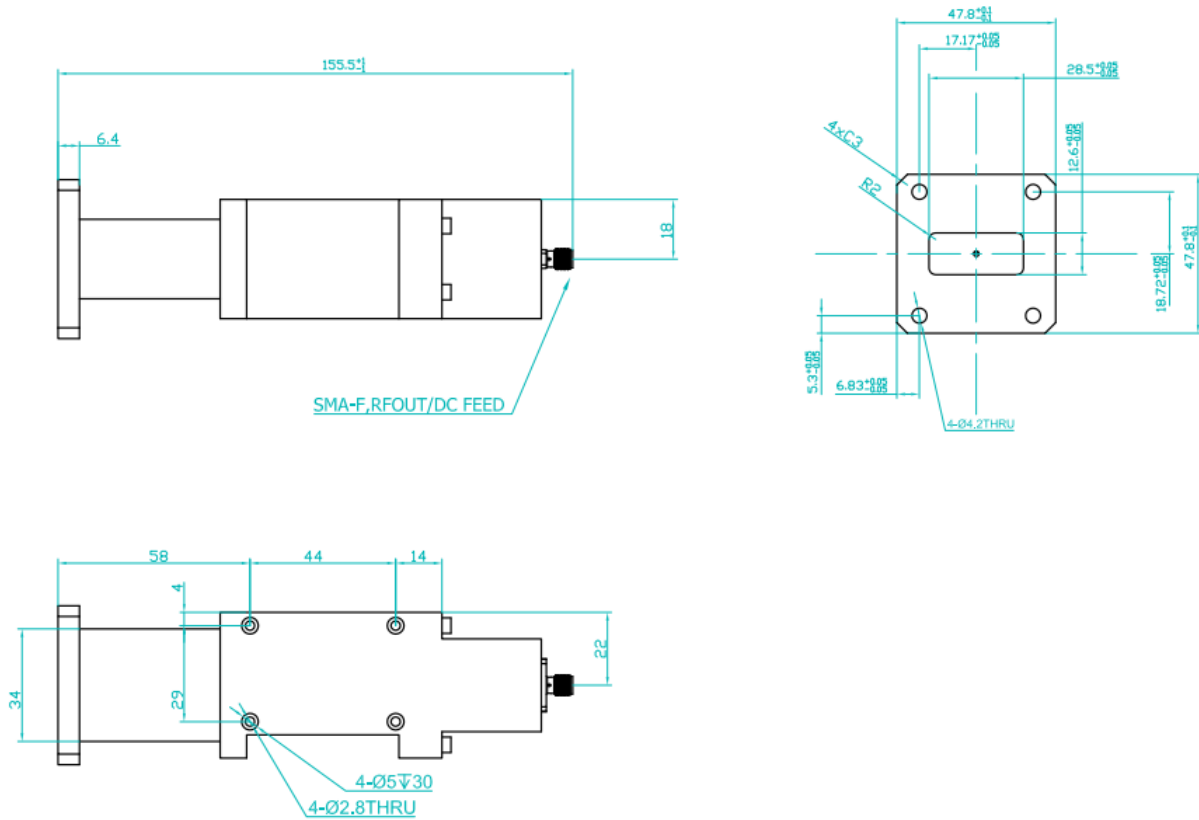


Wide-band Low Noise Amplifier Module
7.9~8.4GHz NF=1.4

Rev1.0

Outline drawing

All dimensions are in millimeters. The dimensions in the figure below do not include connectors



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