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[Http://www.100y.com.tw](http://www.100y.com.tw)

产品参数

[名称]: SBB5089射频放大器模块

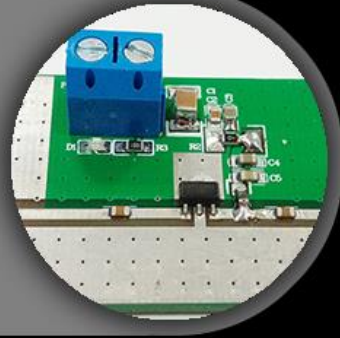
[尺寸]: 50mm X 30mm

[供电电压范围]: +5V

[电流]: 110mA

产品特点 | Highlights

本店出售的射频放大器系列，都具有良好的S参数，基本与官方的参数相差无几，可以根据需要的频段进行优化，将模块的性能发挥出来。



SBB-5089特点

50-6000MHz

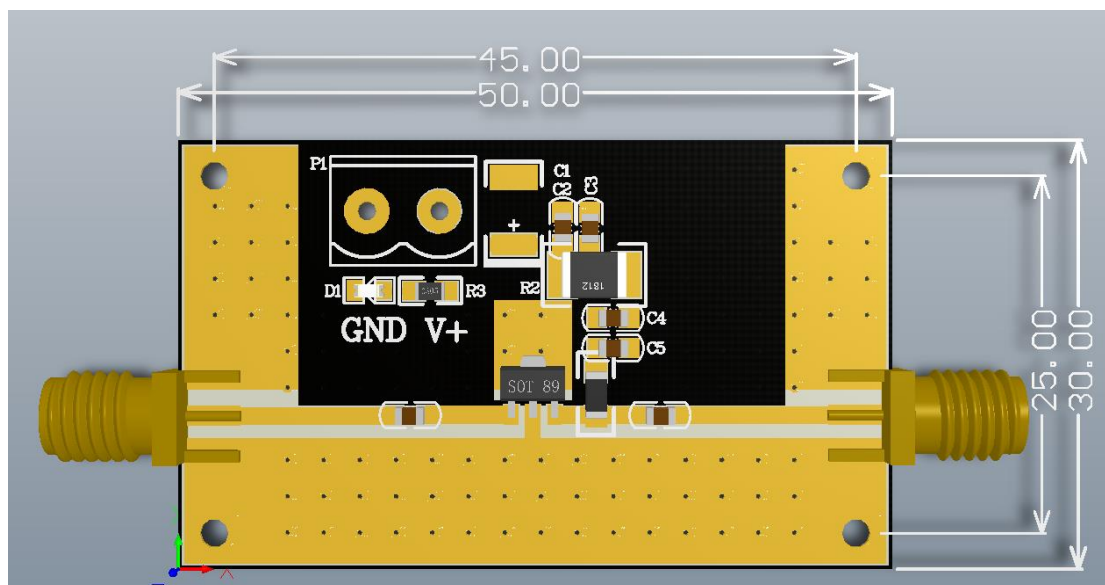
+20.4dBm P1dB at 1950MHz

单电源供电

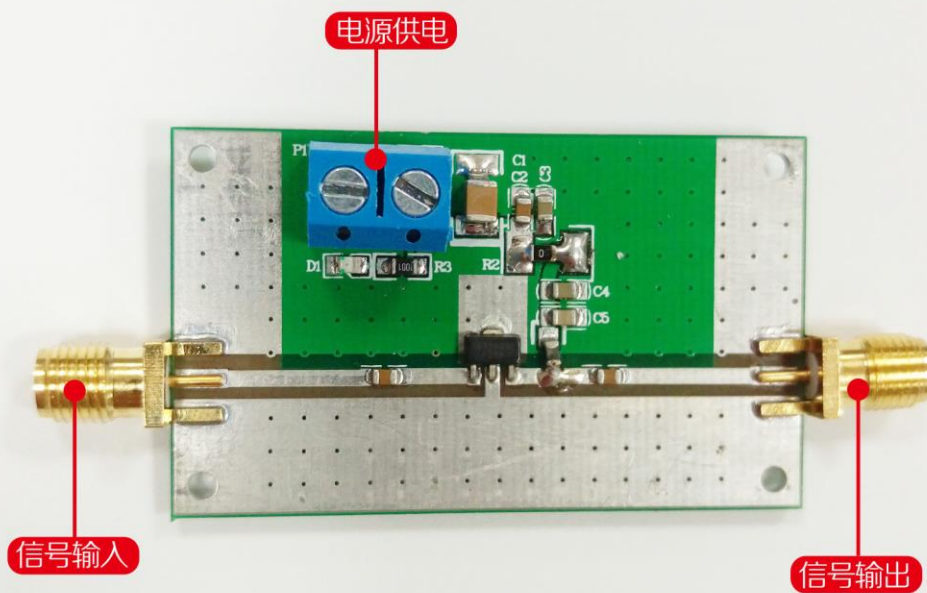
阻抗匹配50Ω



尺寸图：单位（mm）



KANGWEI
模块功能说明

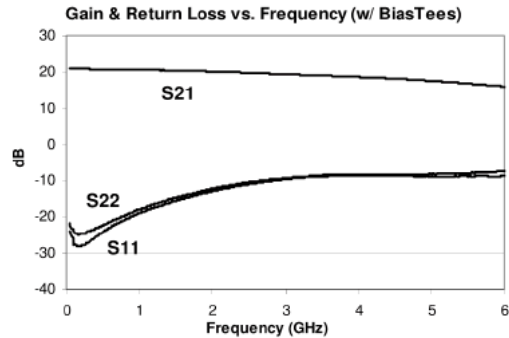




Product Description

Sirenza Microdevices' SBB-5089 is a high performance InGaP HBT MMIC amplifier utilizing a Darlington configuration with an active bias network. The active bias network provides stable current over temperature and process Beta variations. Designed to run directly from a 5V supply, the SBB-5089 does not require a dropping resistor as compared to typical Darlington amplifiers. The SBB-5089 product is designed for high linearity 5V gain block applications that require small size and minimal external components. It is internally matched to 50 ohms.

The matte tin finish on Sirenza's lead-free package utilizes a post annealing process to mitigate tin whisker formation and is RoHS compliant per EU Directive 2002/95. This package is also manufactured with green molding compounds that contain no antimony trioxide nor halogenated fire retardants.



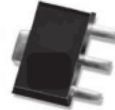
Preliminary

SBB-5089

SBB-5089Z



0.05-6 GHz, Cascadable
Active Bias InGaP/GaAs HBT MMIC Amplifier



Product Features

- Available in Lead free, RoHS compliant, & Green packaging
- Wideband Flat Gain to 4GHz: +/-1.1dB
- P_{1dB} = 20.4 dBm @ 1950MHz
- Single Fixed 5V Supply
- Robust 1000V ESD, Class 1C
- Patented Thermal Design & Patent Pending Bias Circuit
- Low Thermal Resistance
- MSL 1 moisture rating

Applications

- PA Driver Amplifier
- Cellular, PCS, GSM, UMTS
- Wideband Instrumentation
- Wireless Data, Satellite Terminals

典型应用官方参数参照

Typical RF Performance at Key Operating Frequencies (With .5-3.5 GHz Application Circuit)

Symbol	Parameter	Unit	Frequency (MHz)					
			500	850	1950	2500	3500	4000
S ₂₁	Small Signal Gain	dB	20.8	20.8	20.1	19.8	18.7	17.8
OIP ₃	Output Third Order Intercept Point	dBm	38.6	39.2	34.9	32.8	29.4	26.8
P _{1dB}	Output Power at 1dB Compression	dBm	20.5	20.4	20.4	19.4	16.9	14.7
S ₁₁	Input Return Loss	dB	27.2	22.7	14.6	12.9	10.6	11.6
S ₂₂	Output Return Loss	dB	31.8	21.5	13.5	12.0	13.5	27.5
S ₁₂	Reverse Isolation	dB	22.7	22.8	23.4	23.7	24.7	25.7
NF	Noise Figure	dB	3.8	3.8	4.1	4.1	4.3	4.6
Test Conditions: VCC = 5V I _D = 80mA Typ. OIP ₃ Tone Spacing = 1MHz, Pout per tone = 0 dBm T _L = 25°C Z _S = Z _L = 50 Ohms								

SBB5089 射频放大器测试数据:

Fre (MHz)	50	100	200	500	800	1000	1500	1800	2000	2400	2800	3000
Gain (dB)	20.6	20.86	20.36	19.52	18.88	18.60	18.11	17.52	16.75	16.85	15.60	15.20