

ACGI053059-P38

C-band matched GaAs Device

Features:

Frequency: $5.3 \sim 5.9$ GHz Saturated Output Power : $P_{Sat} \ge 38$ dBm PowerGain: Gain ≥ 8.5 dB Add-Efficiency: PAE $\ge 38\%$ Port matching: Zin/Zout= 50Ω

Description:

ACGI053059-P38 is an internal matching GaAs device, which adopts advanced co-planar internal matching MCM and thin film circuit technology. The typical working frequency range is 5.3~5.9GHz. This device can be used in different RF/Microwave system and subsystem. The high output power level, high efficiency and wide operating temperature range can make application very flexible.

Maximun Ratings (TC=25 $^{\circ}$ C, Not recommended working under this condition):

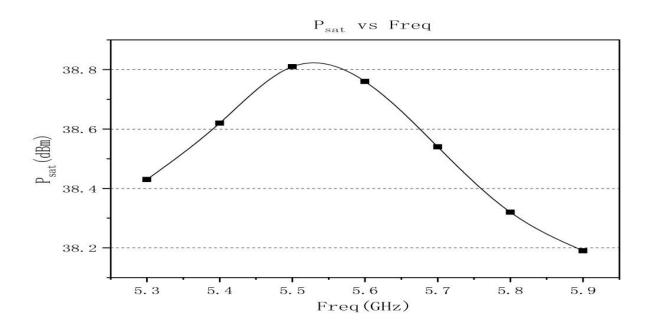
	Symbol	Value	Unit
Voltage between source and drain	Vds	11	V
Voltage between gate and source	Vgs	-3	V
Storage Temperature Range	Tstg	-65 to +175	°C
Drain and Source Channel Temperature	Tch	175	°C



Electrical Characteristics:

			Value			
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	ldsr	Vds=10V CW. Pin: 29.5dBm Freq: 5.3~5.9GHz	-	1.4	-	А
Saturated output power	Psat		38	-	-	dBm
Gain	Gp		8.5	-	-	dB
Add-Efficiency	PAE		38	-	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

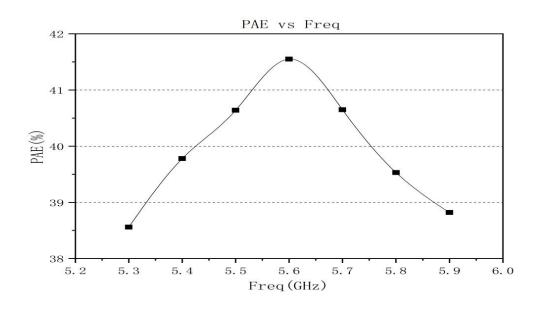
Typical Curve:



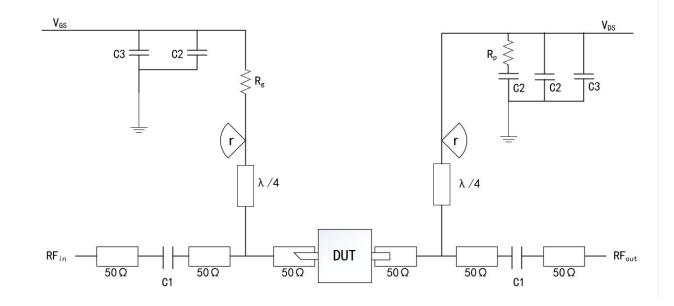
If you need more detailed product information, please contact our marketing personnel or designers. Contact: Peter.Zhang Email: peter.zhang@anserrf.com



Internal Matching GaAs Device



Application Circuit:



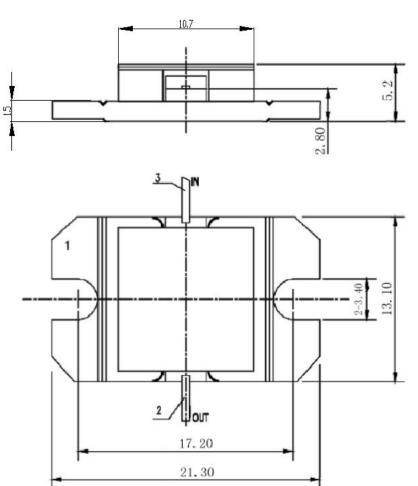
DUT: Device to be tested Rp:51Ω C1:4.7pF Rp:51Ω C2:1000pF Rg:15Ω C3:100uF r(radius)≈5.8mm(Rogers5880, 20mil)



ESD Level:



Outline:



Precautions for use:

- Pay attention to drying transportation and storage.
- Pay attention to anti-static during chip use and assembly, and wear grounding anti-static bracelet.
- When powering up, first apply grid power then add leakage.