

# ACGI058065-P39-1

C-band matched GaAs Device

Features:

Frequency: 5.8~6.8GHz 1dB Output Power : P<sub>1dB</sub>≥39dBm PowerGain: Gain=9dB(type) Efficiency: η=30%(type) Port matching: Zin/Zout=50Ω

Description:

ACGI058068-P39-1 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 5.8~6.8GHz. 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):

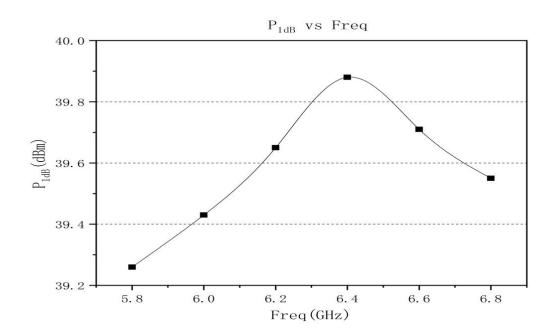
	Symbol	Value	Unit
Voltage between source and drain	Vds	11	V
Voltage between gate and source	Vgs	-3	V
Storage Temperature Range	Tstg	-65 to +150	°C
Drain and Source Channel Temperature	Tch	150	°C



## **Electrical Characteristics:**

			Value			
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	ldsr	Vds=10V CW. Pin: 30dBm Freq: 5.8~6.8GHz	-	3	-	А
1dB output power	P1dB		39	-	-	dBm
Gain	Gp		-	9	-	dB
Efficiency	η		-	30	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

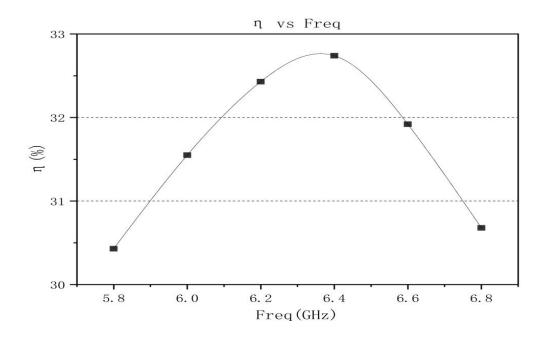
#### **Typical Curve:**



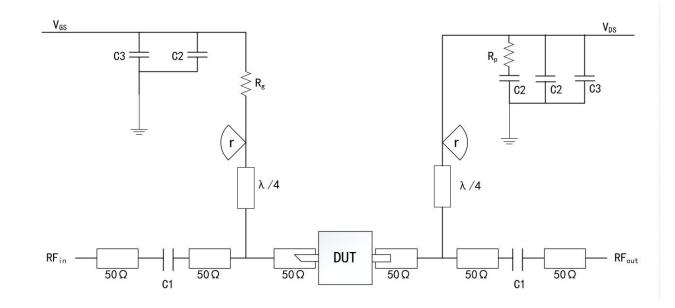
If you need more detailed product information, please contact our marketing personnel or designers. Contact: Peter.Zhang Email: peter.zhang@anserrf.com



# Internal Matching GaAs Device



### **Application Circuit:**



# DUT: Device to be tested Rp:51Ω C1:3pF Rp:51Ω C2:1000pF Rg:15Ω C3:100uF r(radius)≈4.5mm(Rogers5880, 20mil)

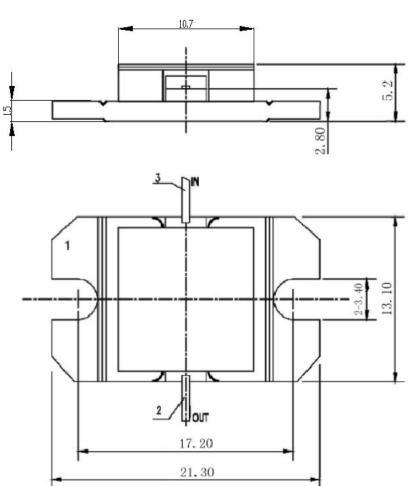
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#### **ESD Level:**



#### **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.