

# ACGI058068-P45-1

C-band matched GaAs Device

Features:

Frequency: 5.8~6.8GHz 1dB Output Power : P<sub>1dB</sub>≥45dBm PowerGain: Gain=8.5dB(type) Efficiency: η=30%(type) Port matching: Zin/Zout=50Ω

Description:

ACGI058068-P45-1 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):

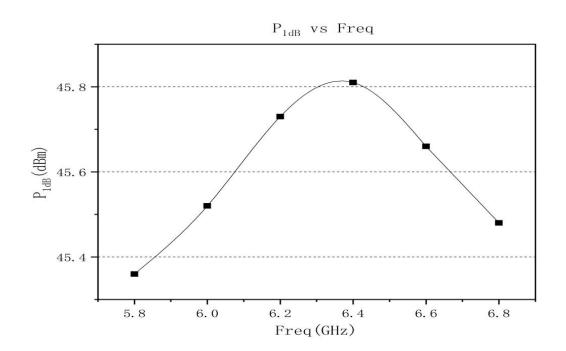
	Symbol	Value	Unit
Voltage between source and drain	Vds	11	V
Voltage between gate and source	Vgs	-3	V
Storage Temperature Range	Tstg	-65 to +150	°C
Drain and Source Channel Temperature	Tch	150	°C



## **Electrical Characteristics:**

			Value			
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	ldsr	Vds=10V CW. Pin: 36.5dBm Freq: 5.8~6.8GHz	-	12	-	А
1dB output power	P1dB		45	-	-	dBm
Gain	Gp		-	8.5	-	dB
Efficiency	η		-	30	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

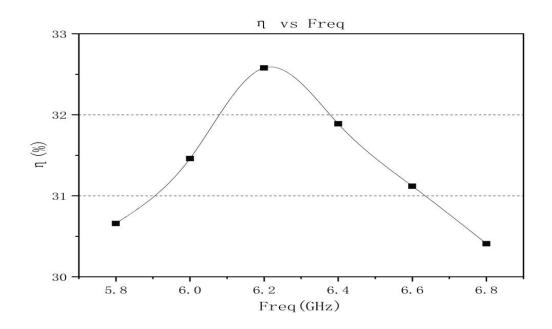
### **Typical Curve:**



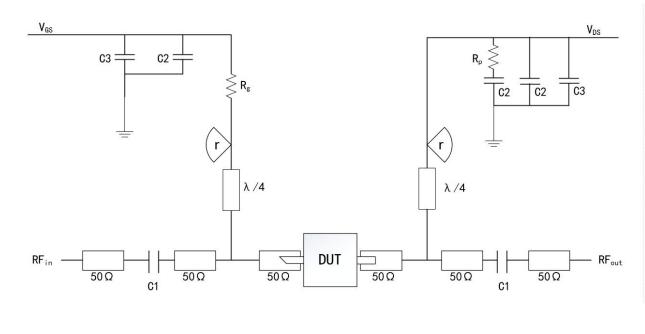
If you need more detailed product information, please contact our marketing personnel or designers. Contact: Peter.Zhang Email: peter.zhang@anserrf.com



## Internal Matching GaAs Device



## **Application Circuit:**



#### DUT: Device to be tested

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

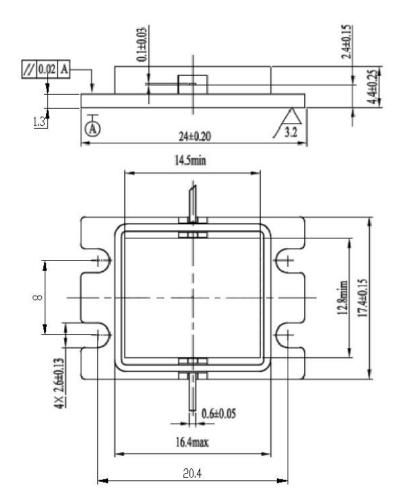
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**ESD Level:** 



#### **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.