

# ACGI095105-P36-1

X-band matched GaAs Device

Features:

Frequency: 9.5~10.5GHz 1dB Output Power : P<sub>1dB</sub>=36dBm(type) PowerGain: Gain=7dB(type) Add-Efficiency: PAE=25%(type) Port matching: Zin/Zout=50Ω

Description:

ACGI095105-P36-1 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 9.5~10.5GHz. 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):

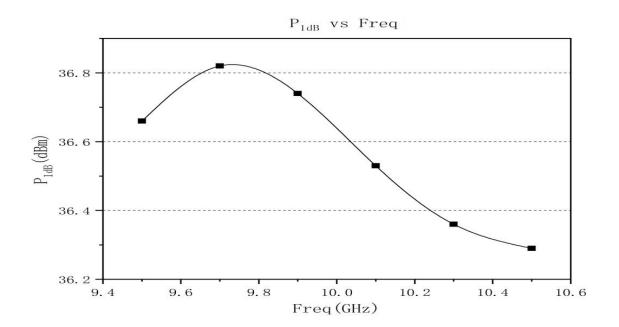
	Symbol	Value	Unit
Voltage between source and drain	Vds	11	V
Voltage between gate and source	Vgs	-3	V
Storage Temperature Range	Tstg	-65 to +150	°C
Drain and Source Channel Temperature	Tch	150	°C



### **Electrical Characteristics:**

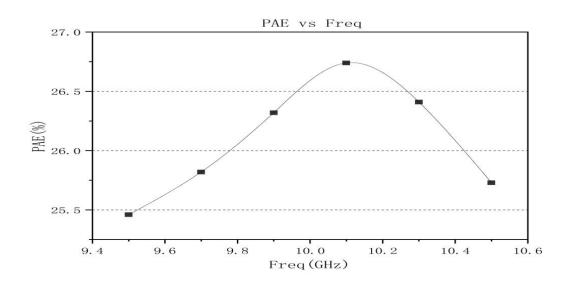
			Value			
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	ldsr	Vds=10V CW. Pin: 29dBm Freq: 9.5~10.5GHz	-	1.3	-	А
1dB output power	P1dB		-	36	-	dBm
Gain	Gp		-	7	-	dB
Add-Efficiency	PAE		-	25	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

## **Typical Curve:**

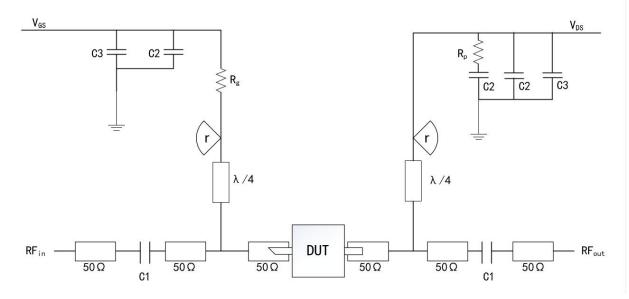


If you need more detailed product information, please contact our marketing personnel or designers. Contact: Peter.Zhang Email: peter.zhang@anserrf.com





## **Application Circuit:**



#### **DUT: Device to be tested**

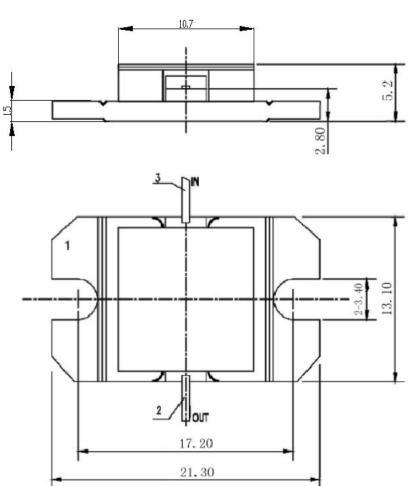
C1:1pF	Rp:51Ω
C2:1000pF	Rg:15Ω
C3:100uF	r(radius)≈3.5mm(Rogers5880, 20mil)



#### **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.