



ACGI031035-P43

S-band matched GaAs Device

Features:

Frequency: 3.1~3.5GHz

Saturated Output Power : P_{sat}≥43dBm

PowerGain: Gain≥10.5dB

Efficiency: $\eta = 35\%$ (type)

Port matching: $Z_{in}/Z_{out}=50\Omega$

Description:

ACGI031035-P43 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 3.1~3.5GHz. 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):

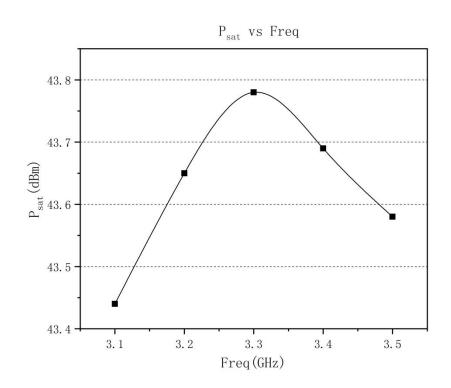
	Symbol	Value	Unit
Voltage between source and drain	Vds	11	V
Voltage between gate and source	Vgs	-3	V
Storage Temperature Range	Tstg	-65 to +150	°C
Drain and Source Channel Temperature	Tch	150	°C



Electrical Characteristics:

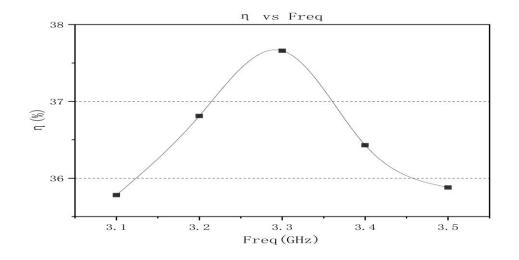
			Value			
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	ldsr	Vds=10V CW. Pin: 32.5dBm Freq: 3.1~3.5GHz	-	5.7	-	А
Saturated output power	Psat		43	-	-	dBm
Gain	Gp		10.5	-	-	dB
Efficiency	η		-	35	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

Typical Curve:

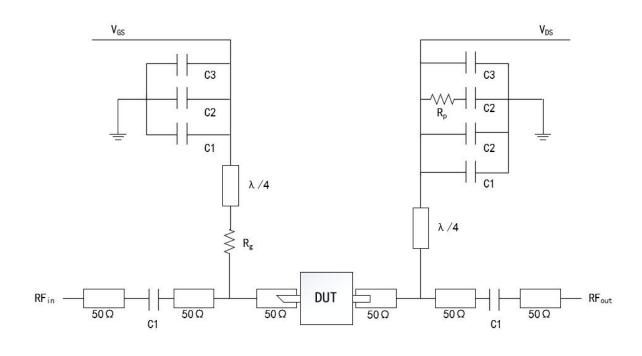


If you need more detailed product information, please contact our marketing personnel or designers. Contact: Peter.Zhang Email: peter.zhang@anserrf.com





Application Circuit:



DUT: Device to be tested

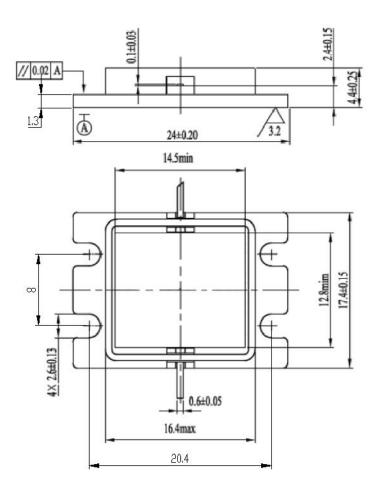
C1:8pF	Rp:51Ω
C2:1000pF	RG:15Ω
C3:100uF	



ESD Level:

ESD	Class III	2000V
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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.