Internal Matching GaAs Device



ACGI044050-P44

C-band matched GaAs Device

Features:

Frequency: $4.4 \sim 5$ GHz Saturated Output Power : $P_{sat} \geq 44$ dBm PowerGain: Gain ≥ 9 dB Add-Efficiency: PAE $\geq 40\%$ Port matching: Zin/Zout= 50Ω

Description:

ACGI044050-P44 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 4.4~5GHz. 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):

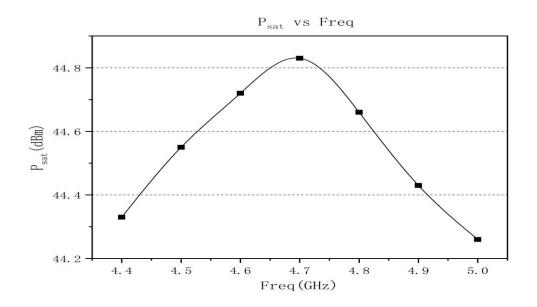
	Symbol	Value	Unit
Voltage between source and drain	Vds	11	V
Voltage between gate and source	Vgs	-3	V
Storage Temperature Range	Tstg	-65 to +175	°C
Drain and Source Channel Temperature	Tch	175	°C



Electrical Characteristics:

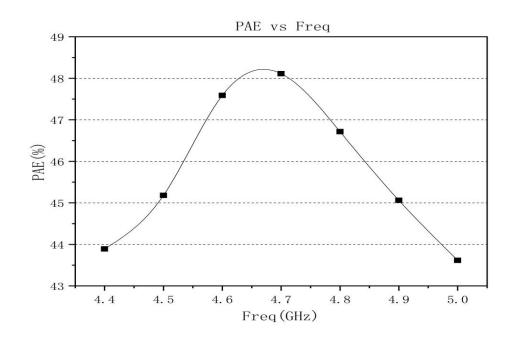
			Value			
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	ldsr	Vds=10V CW. Pin: 35dBm Freq: 4.4~5GHz	-	5.2	-	А
Saturated output power	Psat		44	-	-	dBm
Gain	Gp		9	-	-	dB
Add-Efficiency	PAE		40	-	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

Typical Curve:

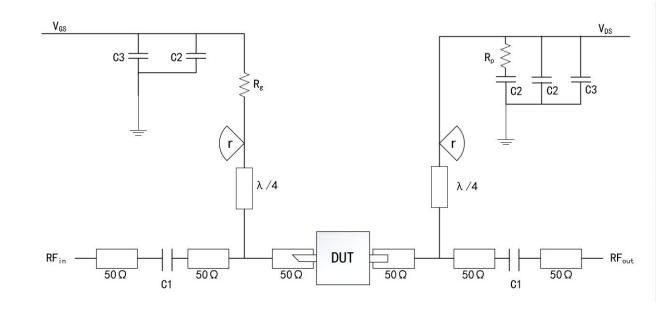




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Application Circuit:



DUT: Device to be tested

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

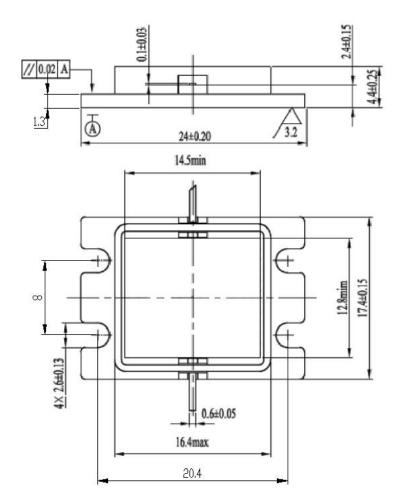
If you need more detailed product information, please contact our marketing personnel or designers. Contact: Peter.Zhang Email: peter.zhang@anserrf.com



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.