

ACGI044050-P40-1

C-band matched GaAs Device

Features:

Frequency: 4.4~5GHz 1dB Output Power : $P_{1dB} \ge 40dBm$ PowerGain: Gain $\ge 9dB$ Efficiency: $\eta = 35\%$ (type) Port matching: Zin/Zout=50 Ω

Description:

ACGI044050-P40-1 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 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):

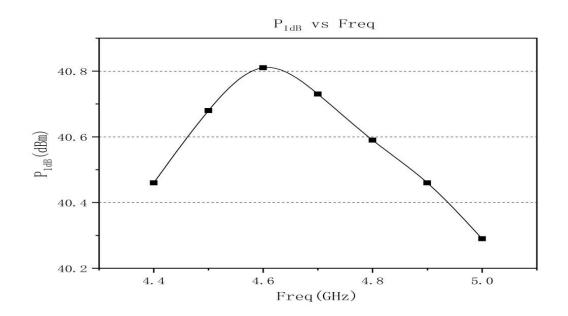
	Symbol	Value	Unit
Voltage between source and drain	Vds	11	V
Voltage between gate and source	Vgs	-3	V
Storage Temperature Range	Tstg	-65 to +150	°C
Drain and Source Channel Temperature	Tch	150	°C



Electrical Characteristics:

			Value			
	Symbol	ol Test condition	Min	Тур	Max	Unit
Drain Current	l _{dsr}	Vds=10V CW. Pin: 31dBm Freq: 4.4~5GHz	-	2.9	-	А
1dB output power	P _{1dB}		40	-	-	dBm
Gain	G _p		9	-	-	dB
Efficiency	η		-	35	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

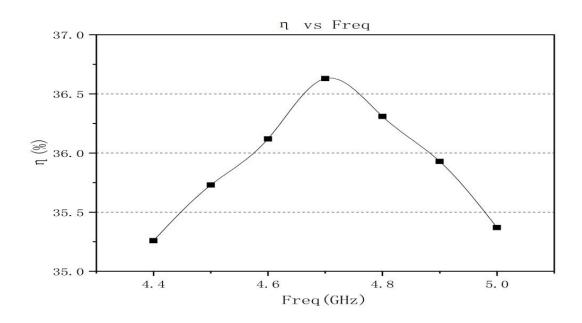
Typical Curve:



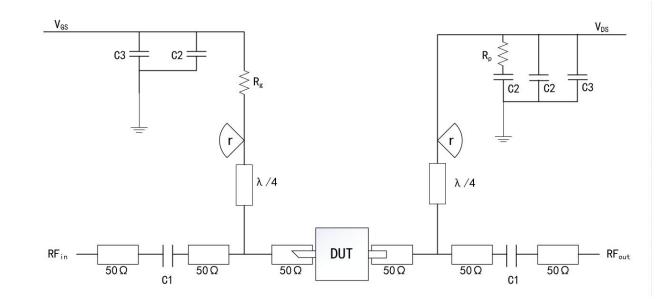
If you need more detailed product information, please contact our marketing personnel or designers. Contact: Peter.Zhang Email: peter.zhang@anserrf.com



Internal Matching GaAs Device



Application Circuit:



DUT: Device to be tested

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

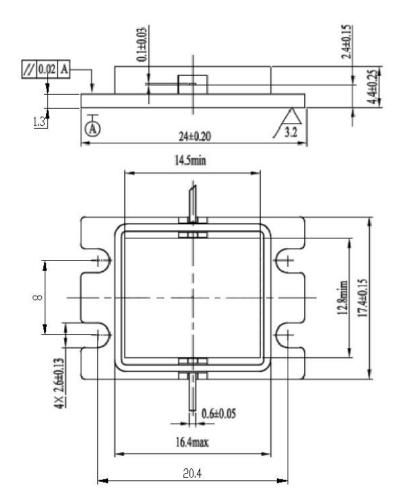
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ESD Level:



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.