

ANGI059064-P43

C-band matched GaN Device

Features:

Frequency: 5.9~6.4GHz

Saturated Output Power: Psat≥43dBm

PowerGain: Gain≥10dB Add-Efficiency: PAE≥45% Port Matching: Zin/Zout=50Ω

Description:

ANGI059064-P43 is an internal matching GaN device, which adopts advanced co-planar internal matching MCM and thin film circuit technology. The typical working frequency range is 5.9~6.4GHz. 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°C, Not recommended working under this condition):

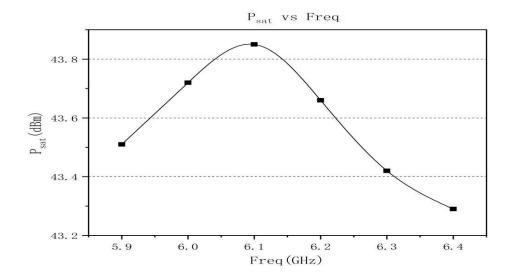
	Symbol	Value	Unit
Voltage between source and drain	V DS	40	V
Voltage between gate and source	V _G s	-5	V
Storage Temperature Range	T_{stg}	-65 to +175	°C
Drain and Source Channel Temperature	Tch	175	°C



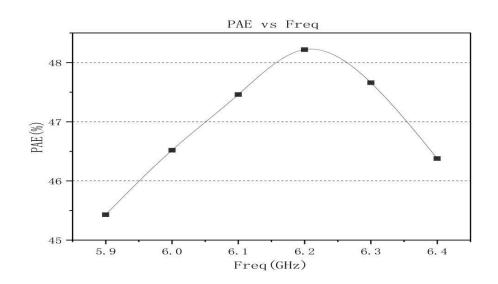
Electrical Characteristics:

				Value		
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	ldsr	-	1.4	-	Α	
Saturated Output Power	Psat	Vds=28V CW.	43	-	-	dBm
Gain	Gp Freq: 5.9~6.4GH	10	-	-	dB	
Add-Efficiency	PAE		45	-	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

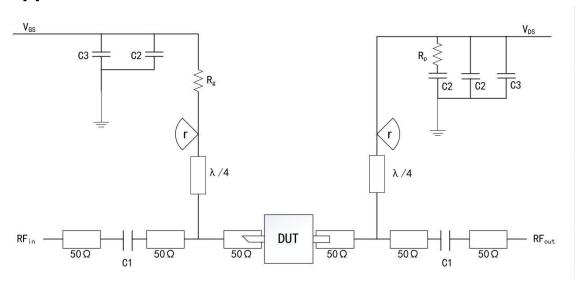
Typical Curve:



Internal Matching GaN Device



Application Circuit:



DUT: Device to be tested

C1:4.7pF R_p :51 Ω

C2:1000pF $R_G:15\Omega$

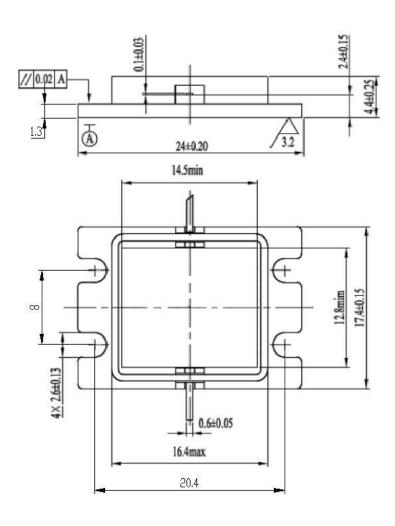
C3:100uF r(radius)≈5.8mm(Rogers5880, 20mil)



ESD Level:

ESD	Class III	2000V

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.