

ANGI053059-P51

C-band matched GaN Device

Features:

Frequency: $5.3 \sim 5.9$ GHz Saturated Output Power: $P_{sat} \ge 51$ dBm PowerGain: Gain ≥ 10 dB Add-Efficiency: PAE $\ge 45\%$ Port Matching: $Z_{in}/Z_{out} = 50\Omega$

Description:

ANGI053059-P51 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 5.3~5.9GHz. 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	Vds	40	V
Voltage between gate and source	V _{GS}	-5	V
Storage Temperature Range	Tstg	-65 to +175	°C
Drain and Source Channel Temperature	Tch	175	°C

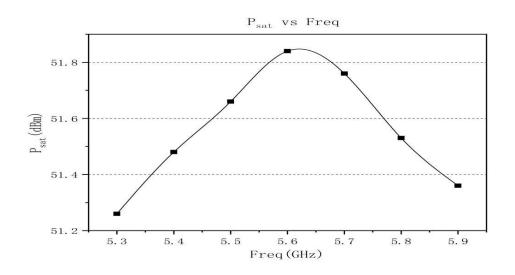
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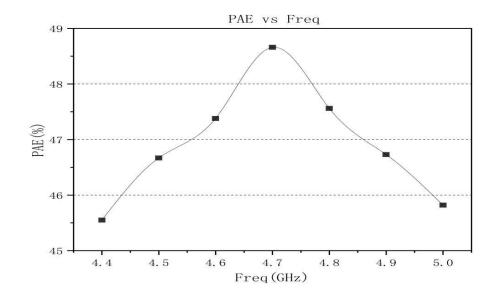
Electrical Characteristics:

		Value				
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	ldsr	Vds=28V CW. Pin: 41dBm Freq: 5.3~5.9GHz	-	9.3	-	А
Saturated Output Power	Psat		51	-	-	dBm
Gain	Gp		10	-	-	dB
Add-Efficiency	PAE		45	-	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

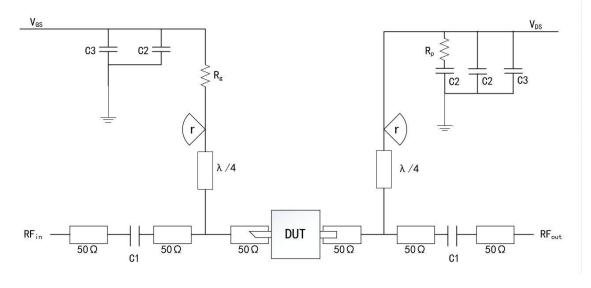
Typical Curve:







Application Circuit:



DUT: Device to be tested

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

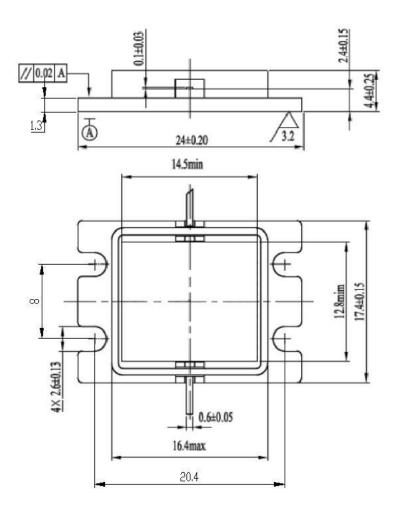
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ESD Level:



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.

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