

ANGI064072-P53

C-band matched GaN Device

Features:

Frequency: $6.4 \sim 7.2$ GHz Saturated Output Power: $P_{sat} \ge 53$ dBm PowerGain: Gain ≥ 9 dB Add-Efficiency: PAE $\ge 40\%$ Port Matching: $Z_{in}/Z_{out} = 50\Omega$

Description:

ANGI064072-P53 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 6.4~7.2GHz. 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):

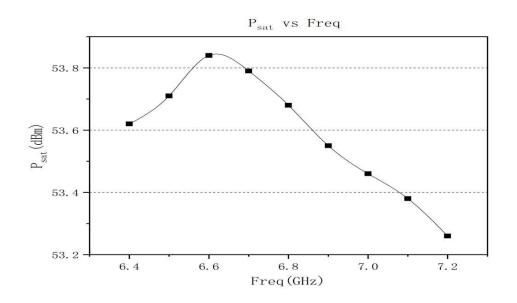
	Symbol	Value	Unit
Voltage between source and drain	Vds	40	V
Voltage between gate and source	V _{GS}	-5	V
Storage Temperature Range	Tstg	-65 to +175	°C
Drain and Source Channel Temperature	Tch	175	°C



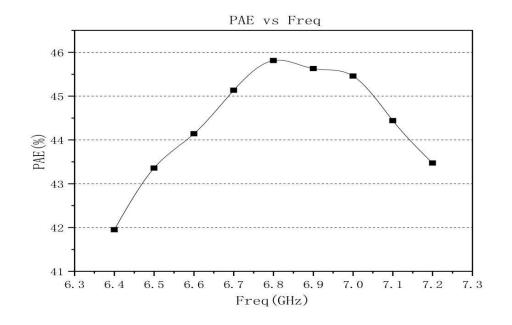
Electrical Characteristics:

			Value			
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	ldsr		-	15.5	-	А
Saturated Output Power	Psat	Vds=28V PW. T=1ms, Duty=10% Pin: 44dBm Freq: 6.4~7.2GHz	53	-	-	dBm
Gain	Gp		9	-	-	dB
Add-Efficiency	PAE		40	-	-	%
Gain Flatness	ΔG		-0.8	_	+0.8	dB

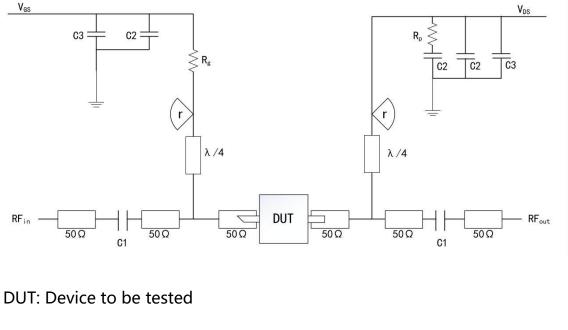
Typical Curve:







Application Circuit:



C1:3pF	R _p :51Ω
C2:1000pF	R _G :15Ω
C3:100uF	r(radius)≈4.5mm(Rogers5880, 20mil)

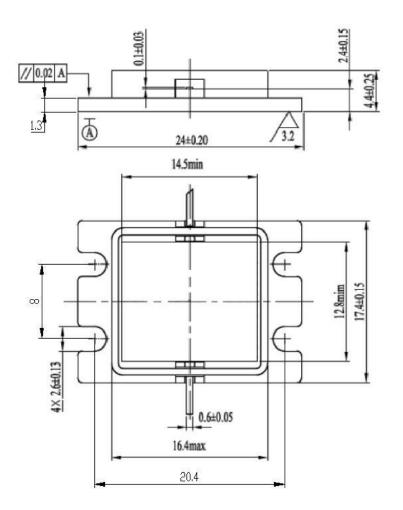
If you need more detailed product information, please contact our marketing personnel or designers. Contact: Peter.Zhang Email: peter.zhang@anserrf.com



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.