

ANGI019021-P43

L-band matched GaN Device

Features:

Frequency: 1.9~2.1GHz

Saturated Output Power: $P_{sat} \geq 43\text{dBm}$

PowerGain: $\text{Gain} \geq 12\text{dB}$

Add-Efficiency: $\text{PAE} \geq 50\%$

Port Matching: $Z_{in}/Z_{out} = 50\Omega$

Description:

ANGI019021-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 1.9~2.1GHz. 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.

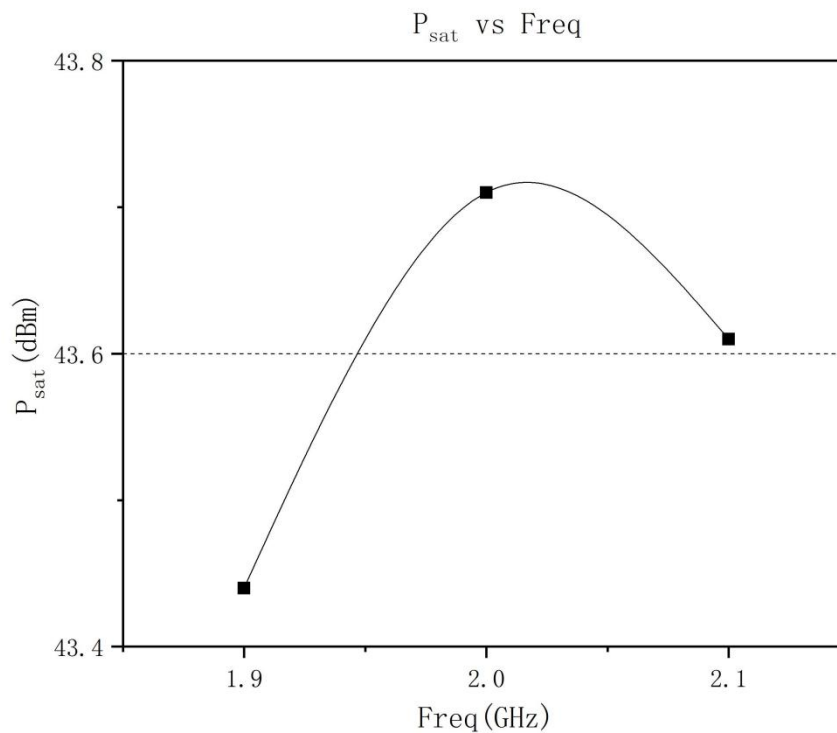
Maximun Ratings (TC=25°C, Not recommended working under this condition):

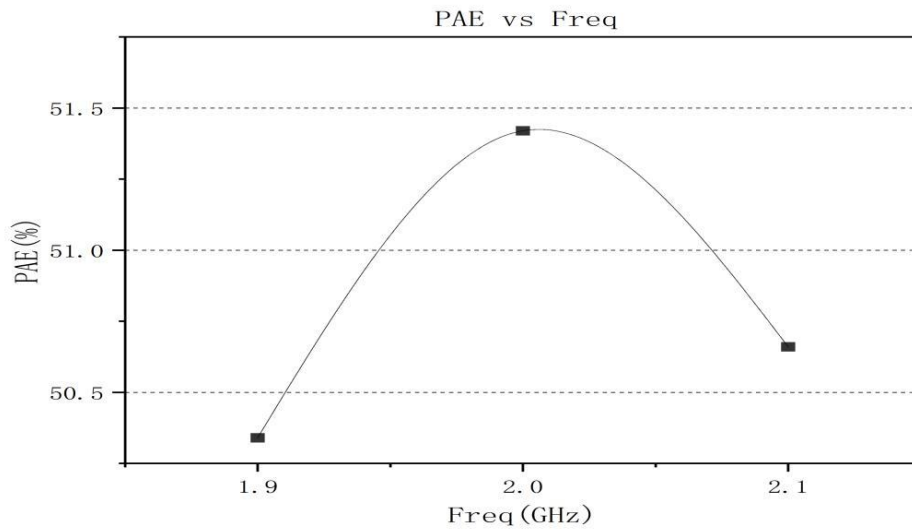
	Symbol	Value	Unit
Voltage between source and drain	V_{DS}	40	V
Voltage between gate and source	V_{GS}	-5	V
Storage Temperature Range	T_{stg}	-65 to +175	°C
Drain and Source Channel Temperature	T_{ch}	175	°C

Electrical Characteristics:

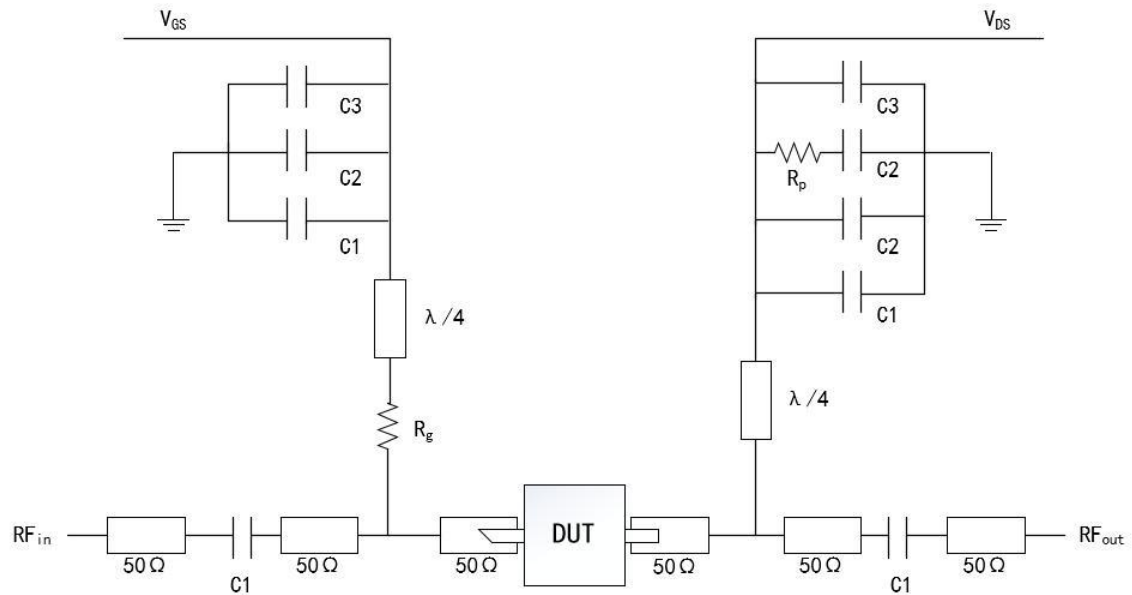
	Symbol	Test condition	Value			Unit
			Min	Typ	Max	
Drain Current	Idsr	Vds=28V CW. Pin: 31dBm Freq: 1.9~2.1GHz	-	1.3	-	A
Saturated Output Power	Psat		43	-	-	dBm
Gain	Gp		12	-	-	dB
Add-Efficiency	PAE		50	-	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

Typical Curve:





Application Circuit:



DUT: Device to be tested

C1:20pF

R_p :51Ω

C2:1000pF

R_G :15Ω

C3:100uF

