AnserRF

Internal Matching GaN Power Amplifier Module

ANMI022023-P47

S-band matched GaN power amplifier module

Features:

Frequency: 2.2~2.3GHz

Saturated Output Power: Psat≥47dBm

PowerGain: Gain≥28dB Efficiency: η=50%(type)

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

Description:

ANMI022023-P47 is an internal matching GaN power amplifier module, which adopts advanced co-planar internal matching MCM and thin film circuit technology. The typical working frequency range is 2.2~2.3GHz. 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	Tch	175	°C

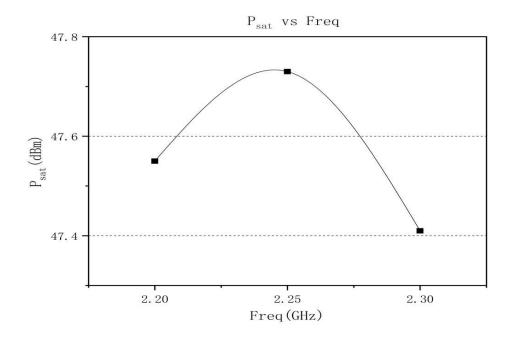


Internal Matching GaN Power Amplifier Module

Electrical Characteristics:

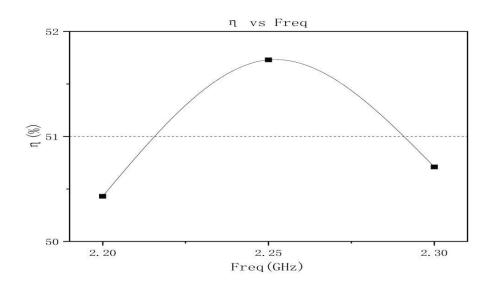
				Value		
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	Drain Current I _{dsr}		-	3.7	-	Α
Saturated Output Power	Psat	Vds=28V CW. Pin: 19dBm Freq: 2.2~2.3GHz	47	-	-	dBm
Gain	Gp		28	-	-	dB
Efficiency	η		ı	50	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

Typical Curve:

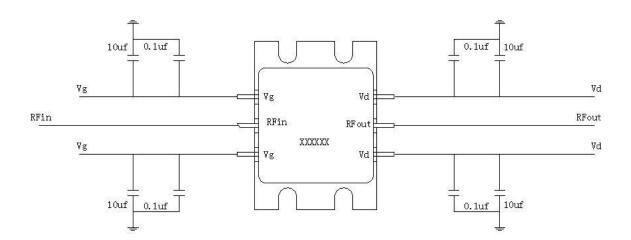




Internal Matching GaN Power Amplifier Module



Application Circuit:



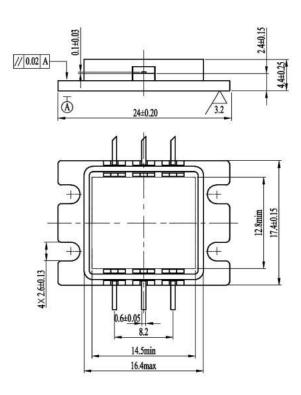


Internal Matching GaN Power Amplifier Module

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.