# AnserRF

#### **Internal Matching GaN Power Amplifier Module**

# ANMI014015-P40

#### L-band matched GaN power amplifier module

#### **Features:**

Frequency: 1.4~1.5GHz

Saturated Output Power: Psat≥40dBm

PowerGain: Gain≥25dB Efficiency: η=50%(type)

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

#### **Description:**

ANMI014015-P40 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 1.4~1.5GHz. 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 <sub>DS</sub>	40	V
Voltage between gate and source	V <sub>GS</sub>	-5	V
Storage Temperature Range	$T_{stg}$	-65 to +175	°C
Drain and Source Channel Temperature	Tch	175	°C

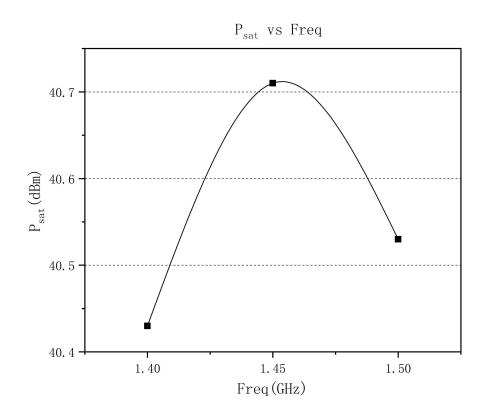


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### **Electrical Characteristics:**

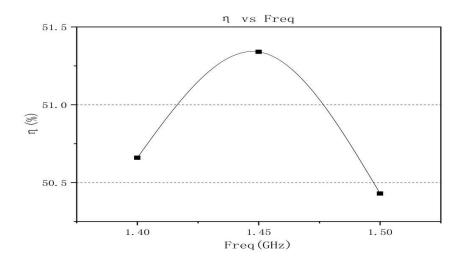
				Value		
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	ldsr		-	0.7	-	А
Saturated Output Power	-	40	-	-	dBm	
Gain	Gp	Pin: 15dBm Freq: 1.4~1.5GHz	25	-	-	dB
Efficiency	η		ı	50	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

# **Typical Curve:**

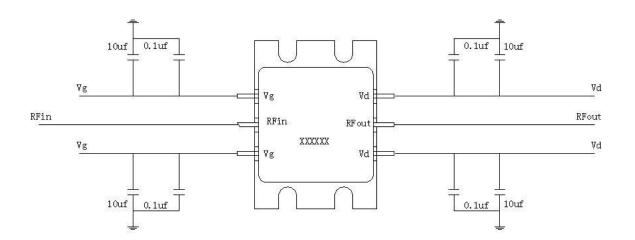




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# **Application Circuit:**



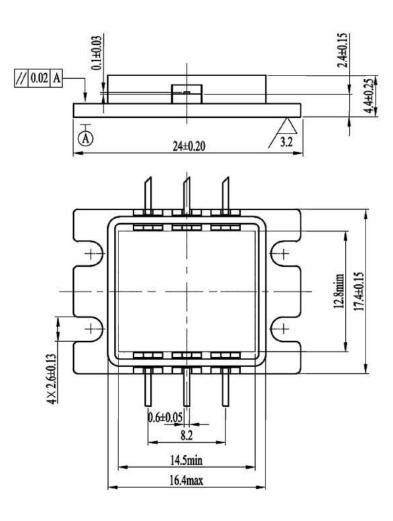


### **Internal Matching GaN Power Amplifier Module**

#### **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.